

STEVEN ANDREW FREEMAN

Campus Address:

3333 Elings Hall
Iowa State University
Ames, IA 50011
Phone: (515) 294-9541
E-Mail: sfreeman@iastate.edu
WWW: <http://www.public.iastate.edu/~sfreeman>

Home Address:

1309 Iowa Circle
Ames, IA 50014-4015
Phone: (515) 296-2084

Education

- Ph.D.** Agricultural Engineering. Purdue University. May 1993
- M.S.** Agricultural Engineering. Texas A&M University. August 1990
- B.S.** Agricultural Engineering. Colorado State University. June 1988

Professional Experience

Iowa State University, Ames, Iowa (8/97 - present)

University Professor, Agricultural and Biosystems Engineering (8/14 - present)

Faculty Advisor to the President (7/13 - 6/21)

Professor, Agricultural and Biosystems Engineering (8/09 - 8/14)

Associate Director, Center for Excellence in Learning and Teaching (8/09 - 7/13)

Assistant Director, Center for Excellence in Learning and Teaching (1/04 - 8/09)

Associate Professor, Agricultural and Biosystems Engineering (7/04 - 8/09)

Associate Professor, Industrial Education and Technology (8/03 - 6/04)

Associate Professor (Courtesy), Agricultural and Biosystems Engineering (8/03 - 6/04)

Assistant Professor (Courtesy), Agricultural and Biosystems Engineering (10/98 - 8/03)

Assistant Professor, Industrial Education and Technology (8/97 - 8/03)

Blue Spruce Safety Services, Ames, Iowa (9/98 - present)

Safety and Health Consulting and Training

Purdue University, West Lafayette, Indiana (8/90 - 8/97)

Agricultural Safety Specialist, Agricultural and Biological Engineering (1/94 - 8/97)

Visiting Instructor, Agricultural Engineering (7/93 - 5/94)

Graduate Research Fellow/Assistant, Agricultural Engineering (8/90 - 6/93)

Texas A&M University, College Station, Texas (9/88 - 8/90)

Graduate Research Fellow/Assistant, Agricultural Engineering

Colorado State University, Fort Collins, Colorado (1/86 - 5/88)

Laboratory Assistant, Agricultural and Chemical Engineering

Baiamonte Farms, Ault, Colorado (5/77 - 9/88, 6/90 - 8/90)

Family Farm/Ranch Work

Professional Certifications

Certified Safety Professional (CSP). 2001. Board of Certified Safety Professionals.
Certificate No: 16984.

Certified Senior Technology Manager (CSTM). 2005. The Association of Technology, Management, and Applied Engineering. Certificate No: 2015.
Engineer-in-Training (EIT). 1987. State of Colorado, Board of Registration for Professional Engineers and Professional Land Surveyors. Registration No: 15294.
Certified instructor for American Red Cross First Aid/CPR/AED Programs. 2002. American Red Cross.
Approved instructor for U.S. Environmental Protection Agency Worker Protection Standard training. 1995. State of Indiana, Office of the Indiana State Chemist.

Professional Affiliations

American Society of Agricultural and Biological Engineers (ASABE) (1986 - present)
International Society for Agricultural Safety and Health (ISASH) (1993 - present)
American Society of Safety Professionals (ASSP) (1995 - present)
Association of Technology, Management, and Applied Engineering (ATMAE) (1998 - present)
American Society for Engineering Education (ASEE) (1992 - 2021)
Iowa Farm Safety Council (1997 - 2020)
International Society for the Scholarship of Teaching and Learning (ISSOTL) (2005 - 2016)
Professional and Organizational Development Network (POD) (2004 - 2014)
American Association of Higher Education (AAHE) (2004 - 2005)
National Safety Council (NSC) - Agricultural Division (1995 - 2003)
Indiana Rural Safety and Health Council (IRSHC) (1993 - 1998)
Hoosier Safety Council (1995 - 1997)
Purdue University Cooperative Extension Specialists Association (PUCESA) (1994 - 1997)
National Society of Professional Engineers (NSPE) (1987 - 1994)
Indiana Society of Professional Engineers (1990 - 1994)
Colorado Society of Professional Engineers (1987 - 1990)

Honors/Awards

Best Paper Award (2020) for: Utilization of machine learning in analyzing post-incident state of occupational injuries in agro-manufacturing industries, Safety Management and Human Factors division of Applied Human Factors and Ergonomics, https://doi.org/10.1007/978-3-030-50946-0_1.
Distinguished Service Citation (2020), Epsilon Pi Tau, The International Honorary for Professions in Technology.
Doctorate Honoris Causa (2018), Georgian Technical University, Tbilisi, Georgia.
Faculty Excellence Award (2017), Association of Technology, Management, and Applied Engineering.
Distinguished JTMAE Reviewer Service Award (2016), Association of Technology, Management, and Applied Engineering.
Wilbur L. Layton Faculty Recognition Award (2016), Iowa State University Division of Student Affairs.
ASABE Superior Paper Award (2015) for: Development of safety decision-making scenario to measure worker safety in agriculture. *Journal of Agricultural Safety and Health* 20(2):91-97.

Outstanding CTER Manuscript (2013) for: *Exploring the Impact of Work Experience on Part-Time Students' Academic Success in Malaysian Polytechnics*, Association for Career and Technical Education Research.

Miller Faculty Fellow (2013-2014), Iowa State University.

Exemplary Contributions and Service Award (2012), Association of Technology, Management, and Applied Engineering.

Laureate Citation (2012), Epsilon Pi Tau, The International Honorary for Professions in Technology.

Gary Hawk Safety Award (2012), Iowa Occupational Safety and Health Advisory Council.

Fulbright Specialist (2011-2016), Institute of International Education, U.S. Department of State.

Outstanding Reviewer (2011), American Society of Agricultural and Biological Engineers.

SENCER Leadership Fellow (2008-2010), National Center for Science and Civic Engagement, National Science Foundation.

Miller Faculty Fellow (2008-2009), Iowa State University.

Learning Community Champion Award (2008), Iowa State University.

2007 Outstanding Industrial Technology Professor Award, National Association of Industrial Technology.

Miller Faculty Fellow (2007-2008), Iowa State University.

Miller Faculty Fellow (2005-2006), Iowa State University.

Exemplary Contributions Award (2004), National Association of Industrial Technology.

President's Award (2004), National Institute for Farm Safety, Inc.

Wakonse Fellow (2002), Wakonse Foundation on College Teaching, Iowa State University Center for Teaching Excellence.

Miller Faculty Fellow (2001-2002), Iowa State University.

College of Education Outstanding Early Achievement in Outreach Commendation (2001), Iowa State University.

ASAE Educational Aids Blue Ribbon (1997) for: Preventing rural childhood injuries, No. 3. Purdue University Cooperative Extension Service bulletin 4H-839.

Breaking New Ground Award (1997) for services provided to farm families with disabilities, Breaking New Ground Resource Center, Purdue University.

ASAE Educational Aids Blue Ribbon (1996) for: Preventing rural childhood injuries, No. 2. Purdue University Cooperative Extension Service bulletin 4H-831.

ASAE Superior Paper Award (1995) for: Rural assistive technology hypermedia decision support system. *Applied Engineering in Agriculture* 10(6):823-830.

ASAE Educational Aids Blue Ribbon (1995) for: Preventing rural childhood injuries, No. 1. Purdue University Cooperative Extension Service bulletin 4H-823.

Frederick N. Andrews Doctoral Fellowship (1990-1993), Purdue University

Regent's Fellowship (1988-1990), Texas A&M University

Alpha Epsilon, Honor Society of Agricultural Engineering

Epsilon Pi Tau, Honor Society of Industrial Technology

Gamma Sigma Delta, Honor Society of Agriculture

Outstanding College Students of America

Golden Key National Honor Society

MENSA

Publications (n=119)

Refereed Articles (n=58)

1. Ryan, S.J., G.A. Mosher, and **S.A. Freeman**. 2020. Analysis of engineering and engineering technology student strength patterns using StrengthsFinder. *Journal of Technology, Management, and Applied Engineering* 36(2): http://www.atmae.org/resource/resmgr/jtmae/Analysis_of_Engineering_and_.pdf.
2. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2020. Applied machine learning in agro-manufacturing occupational incidents. *Procedia Manufacturing*, 48, 24-30. <https://doi.org/10.1016/j.promfg.2020.05.016>
3. Haughery, J.H., D.R. Raman, J.K. Olson, and **S.A. Freeman**. 2019. Robots, motivation, and academic success. *International Journal of Engineering Education* 35(6A): 1859-1871.
4. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2019. Use of neural networks to identify safety prevention priorities in agro-manufacturing operations within commercial grain elevators. *Applied Sciences* 9(21): 4690, <https://doi.org/10.3390/app9214690>.
5. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2019. Segmentation of severe occupational incidents in agribusiness industries using latent class clustering. *Applied Sciences* 9(18): 3641, <https://doi.org/10.3390/app9183641>.
6. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2019. Use of logistic regression to identify factors influencing the post-incident state of occupational injuries in agribusiness operations. *Applied Sciences* 9(17): 3449, <https://doi.org/10.3390/app9173449>.
7. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2019. Evaluating machine learning performance in predicting injury severity in agribusiness industries. *Safety Science* 117: 257-262.
8. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2018. Analyzing large workers' compensation claims using generalized linear models and Monte Carlo simulation. *Safety* 4(4): 57, <https://doi.org/10.3390/safety4040057>.
9. Lundy, E.L., C.E. Andresen, **S.A. Freeman**, D.D. Loy, and P.J. Gunn. 2017. Utilization of a modified Delphi method for needs assessment and curriculum revision of a senior-level beef systems management course. *NACTA Journal* 61(3): 193-196.
10. Boylan-Ashraf, P., **S.A. Freeman**, M.C. Shelley, and O. Keles. 2017. Can students flourish in engineering classrooms?. *Journal of STEM Education: Innovations and Research* 18(1): 16-24.
11. Laingen, M., T. Brumm, **S. Freeman**, M. Shelley, and S. Mickelson. 2016. Workplace competency assessment in experiential learning: A longitudinal comparison of supervisor and student self-assessment ratings across two accreditation cycles. *Journal of Engineering Technology; Washington* 33(2):18-33.
12. Marcketti, S.B. and **S.A. Freeman**. 2016. SoTL evidence on promotion and tenure vitas at a research university. *Journal of the Scholarship of Teaching and Learning* 16(5):19-31.
13. Boylan-Ashraf, P., **S.A. Freeman**, and M.C. Shelley. 2015. A case for the need of using scaffolding methods in teaching introductory, fundamental engineering mechanics courses. *Journal of STEM Education: Innovations and Research* 16(4):40-46.

14. Mosher, G.A., N. Keren, **S.A. Freeman**, and C. R. Hurburgh, Jr. 2014. Development of safety decision-making scenario to measure worker safety in agriculture. *Journal of Agricultural Safety and Health* 20(2):91-97.
15. Withers, J.H. and **S.A. Freeman**. 2013. Case study: The importance of the assessment technique in chemical safety training on a college campus. *Journal of SH&E Research* 9(2): 89-93.
16. Mosher, G.A., N. Keren, **S.A. Freeman**, and C. R. Hurburgh, Jr. 2013. Measurement of worker perceptions of trust and safety climate in managers and supervisors at commercial grain elevators. *Journal of Agricultural Safety and Health* 19(2): 125-134.
17. Saunders, K., T.J. Brumm, C. Brooke, S.K. Mickelson, and **S.A. Freeman**. 2013. Assessing student work to support curriculum development: An engineering case study. *Learning Communities Research and Practice* 1(1): Article 6, <http://washingtoncenter.evergreen.edu/lcrjournal/vol1/iss1/6>.
18. Withers, J.H., **S.A. Freeman**, and E. Kim. 2012. Learning & retention of chemical safety training information: A comparison of classroom versus computer-based formats on a college campus. *Journal of Chemical Health and Safety* 19(5): 47-55.
19. Ibrahim, N., **S.A. Freeman**, and M.C. Shelley. 2012. Exploring the impact of work experience on part-time students' academic success in Malaysian polytechnics. *Career and Technical Education Research* 37(1): 57-74.
20. Mosher, G.A., N. Keren, **S.A. Freeman**, and C. R. Hurburgh, Jr. 2012. Management of safety and quality and the relationship with employee decisions in country grain elevators. *Journal of Agricultural Safety and Health* 18(3): 195-215.
21. Ibrahim, N., **S.A. Freeman**, and M.C. Shelley. 2011. Identifying predictors of academic success for part-time students at polytechnic institutes in Malaysia. *International Journal of Adult Vocational Education and Technology* 2(4): 1-16.
22. Mosher, G.A., **S.A. Freeman**, and C. R. Hurburgh, Jr. 2011. Design of an online course in quality management systems for adult learners. *Journal Industrial Technology* 27(4), <http://www.atmae.org/jit/Articles/Mosher-Design-Online-Quality-Management-100611.pdf>.
23. Cena, L.G., N. Keren, W. Li, A.L. Carriquiry, M.D. Pawlovich, and **S.A. Freeman**. 2011. A bayesian assessment of the effect of highway bypasses in Iowa on crashes and crash rate. Accepted for publication in the *Journal of Safety Research* 42(2011): 241-252.
24. Schwab, C.V. and **S.A. Freeman**. 2011. Pilot evaluation of an internet educational module for agricultural safety. *Journal of Extension* 49(3): www.joe.org.
25. Keren, N., **S.A. Freeman**, J.D. Harmon, and C.J. Bern. 2011. Testing the effectiveness of an on-line safety module for engineering students. *International Journal of Engineering Education* 27(2): 284-291.
26. Laux, C.M., G.A. Mosher, and **S.A. Freeman**. 2010. Factors affecting college students' knowledge and opinions of genetically modified foods. *Journal of Technology Studies* 36(2): 2-9.
27. Samuel, C., N. Keren, M.C. Shelley, and **S.A. Freeman**. 2009. Frequency analysis of hazardous material transportation incidents as a function of distance from origin to incident location. *Journal of Loss Prevention in the Process Industries* 22(6): 783-790.

28. Keren, N., T.R. Mills, **S.A. Freeman**, and M.C. Shelley. 2009. Can level of safety climate predict level of orientation toward safety in a decision making task? *Journal of Safety Science* 47(10): 1312-1323.
29. Saunders, K., T.J. Brumm, C. Brooke, S.K. Mickelson, and **S.A. Freeman**. 2009. Assessing student work to support curriculum development: An engineering case study. *Journal of Learning Communities Research* 3(3): 47-62.
30. **Freeman, S.A.**, D.W. Field, C.W. Lott, and C.V. Schwab. 2009. Evaluation of the safety content in the National Association of Industrial Technology certification exam. *Journal of Industrial Technology* 25(1), <http://www.atmae.org/jit/Articles/freeman122408.pdf>.
31. Sgro, S., D.W. Field, and **S.A. Freeman**. 2008. Oxy-fuel or gas metal arc welding: Which should we be teaching in the classroom. *Journal of Technology Studies* 34(1): 2-11.
32. **Freeman, S.A.**, C.V. Schwab, and Q. Jiang. 2008. Quantifying stressors among Iowa farmers. *Journal of Agricultural Safety and Health* 14(4): 431-439.
33. Hoffa, D.W. and **S.A. Freeman**. 2008. An evaluation of student performance on traditional vs. synopsis laboratory reports in industrial technology. *International Journal for the Scholarship of Teaching and Learning* 2(1), http://www.georgiasouthern.edu/ijstol/v2n1/articles/Hoffa_Freeman/index.htm.
34. Ancar, L.N., **S.A. Freeman**, and D.W. Field. 2007. Professional connections through the Technology Learning Community. *Journal of Technology Studies* 33(2):73-78.
35. Hoffa, D.W. and **S.A. Freeman**. 2007. The impact of laboratory report format on student learning. *International Journal of Engineering Education* 23(1):105-113.
36. Ancar, L.N., **S.A. Freeman**, and D.W. Field. 2006. Students make personal connections through learning community experiences. *Journal of Learning Communities Research* 1(2): 19-28.
37. Hoffa, D.W. and **S.A. Freeman**. 2006. Reducing student writing time and instructor grading time of laboratory reports. *Journal of Industrial Technology* 22(3), <http://www.atmae.org/jit/Articles/hoffa092006.pdf>.
38. **Freeman, S.A.**, C.V. Schwab, and J.L.P. Judge. 2006. An investigation of three physical parameters of PTO entanglements. *Journal of Agricultural Safety and Health* 12(3):191-197.
39. Keren, N., **S.A. Freeman**, and C.V. Schwab. 2006. Does SH&E education in high education institutes lead to a change in cognitive patterns among graduates? *Journal of SH&E Research* 3(2), http://www.asse.org/academicsjournal/documents/06summer_keren.pdf.
40. Field, D.W., **S.A. Freeman**, and M.J. Dyrenfurth. 2004. Holistic assessment of students in undergraduate industrial technology programs. *Journal of Technology Studies* 30(4):78-85.
41. **Freeman, S.A.** and D.W. Field. 2004. Student perceptions of Web-based supplemental instruction. *Journal of Technology Studies* 30(4):25-31.
42. **Freeman, S.A.** and M.J. Dyrenfurth. 2003. Using peer assessments in team activities. *Journal of Industrial Technology* 20(1), <http://www.atmae.org/jit/Articles/freeman102903.pdf>.

43. **Freeman, S.A.**, C.V. Schwab, and T. Pollard. 2003. Assessment of Iowa farmers' perceptions about auger safety. *Journal of Agricultural Safety and Health* 9(1):61-74.
44. **Freeman, S.A.**, D.W. Field, and M.J. Dyrenfurth. 2001. Using contextual learning to build cross-functional skills in industrial technology curricula. *Journal of Industrial Teacher Education* 38(3): 62-75.
45. **Freeman, S.A.**, D.W. Field, and M.J. Dyrenfurth. 2001. Enriching the undergraduate experience through a technology learning community. *Journal of Technology Studies* 27(1):53-58.
46. **Freeman, S.A.** and K.M. Embleton. 2000. Enhancing a residential safety course with the development of an online component: A limited case study. *Journal of Industrial Technology* 16(4), <http://www.atmae.org/jit/Articles/freeman082200.pdf>.
47. Schwab, C.V., **S.A. Freeman**, and T. Pollard. 2000. Assessment of the condition of Iowa augers, auger-related injuries, and farmers' perceptions about auger-related injuries. *Journal of Agricultural Safety and Health* 6(2):117-129.
48. **Freeman, S.A.** 1999. Potential impact of a ROPS retrofit policy in Central Iowa. *Journal of Agricultural Safety and Health* 5(1): 11-18.
49. **Freeman, S.A.** and D.W. Field. 1999. Benefits of a cross-functional safety curriculum. *Journal of Industrial Technology* 15(4), <http://www.atmae.org/jit/Articles/free0899.pdf>.
50. **Freeman, S.A.**, S.D. Whitman, and R.L. Tormoehlen. 1998. Baseline childhood farm safety data for Indiana. *Journal of Agricultural Safety and Health* 4(2):119-130.
51. **Freeman, S.A.**, K.W. Kelley, D.E. Maier, and W.E. Field. 1998. Review of entrapments in bulk agricultural materials at commercial grain facilities. *Journal of Safety Research* 29(2):123-134.
52. **Freeman, S.A.**, S.D. Whitman, R.L. Tormoehlen, and K.M. Embleton. 1997. Internet childhood safety and health resource guide. *Journal of Extension* 35(2): www.joe.org.
53. **Freeman, S.A.**, K.W. Kelley, D.E. Maier, and W.E. Field. 1997. Entrapments in bulk agricultural materials at North American commercial grain facilities. *bulk solids handling* 17(3):405-406.
54. **Freeman, S.A.**, D.D. Jones, and W.E. Field. 1994. Rural assistive technology hypermedia decision support system. *Applied Engineering in Agriculture* 10(6):823-830.
55. **Freeman, S.A.** and W.E. Field. 1994. Selection of rural assistive technology using a HyperCard based knowledge system. *Assistive Technology* 6(2):126-133.
56. **Freeman, S.A.**, D.A. Brusnighan, and W.E. Field. 1992. Selecting mobility aids for farmers and ranchers with physical disabilities. *Technology and Disability* 1(4):63-76.
57. **Freeman, S.A.** and A.D. Whittaker. 1992. An object-oriented methodology for analyzing and allocating resources for field operations. *Applied Engineering in Agriculture* 8(4):525-535.
58. **Freeman, S.A.** and P.D. Ayers. 1989. An expert system for tractor selection. *Applied Engineering in Agriculture* 5(2):123-126.

Books, Book Chapters, and Manuals (n=12)

1. Davoudi Kakhki, F., **Freeman, S.A.**, Mosher, G.A. 2021. Machine learning for occupational slip-trip-fall incidents classification within commercial grain elevators. In:

- P.M. Arezes and R.L. Boring (Eds.), *Advances in Safety Management and Human Performance*. AHFE 2021. Lecture Notes in Networks and Systems vol 262:154-160. Springer. https://doi.org/10.1007/978-3-030-80288-2_18
2. Davoudi Kakhki, F., **Freeman, S.A.**, Mosher, G.A. 2020. Utilization of machine learning in analyzing post-incident state of occupational injuries in agro-manufacturing industries. In: P. Arezes and R. Boring (Eds.), *Advances in Safety Management and Human Performance*. AHFE 2020. Advances in Intelligent Systems and Computing, vol 1204:3-9. Springer, Cham. https://doi.org/10.1007/978-3-030-50946-0_1
 3. **Freeman, S.A.** 2002. Sun safety. In C.V. Schwab (Ed.), *2003 Progressive Farmer Farm Safety Day Camp Manual*. Birmingham, AL: Progressive Farmer Farm Safety Day Camp Program.
 4. **Freeman, S.A.** 2001. Sun safety. In C.V. Schwab (Ed.), *Farm Safety Day Camp Manual*. Birmingham, AL: Progressive Farmer Farm Safety Day Camp Program.
 5. Field, D.W. and **S.A. Freeman**, eds. 1999. *Conversion 2000: Y2K*. Iowa State University: Ames, IA and Manufacturing Extension Partnership: Washington D.C.
 6. **Freeman, S.A.** and M.J. Dyrenfurth. 1999. Y2K assessment materials (Instructor's Guide, Trainer's Guide, and Participant Workbook). In D.W. Field and S.A. Freeman (Eds.), *Conversion 2000: Y2K*. Iowa State University: Ames, IA and Manufacturing Extension Partnership: Washington D.C.
 7. Maier, D.E., **S.A. Freeman**, and W.E. Field. 1998. *Don't Go With the Flow: Commercial Grain Storage Rescue Instructor's Guide*. Purdue University (West Lafayette, IN) and National Grain and Feed Foundation (Washington, D.C.).
 8. **Freeman, S.A.**, S.D. Whitman, and D.R. Doyle, eds. 1995. *Farm Family Safety & Health Workshop Leader's Guide*. Purdue University Cooperative Extension Service bulletin S-90.
 9. **Freeman, S.A.** and S.D. Whitman, eds. 1995. *Purdue University Farm Employee Safety Training Program*. Purdue University Agricultural Safety and Health Program training manual. Department of Agricultural and Biological Engineering, Purdue University.
 10. **Freeman, S.A.**, E.J. Sheldon, and W.E. Field. 1994. *Farm & Ranch Safety Management Instructor's Guide*. Moline, IL: Deere & Company Service Publications.
 11. Sheldon, E.J., **S.A. Freeman** and W.E. Field. 1994. *Farm & Ranch Safety Management Student Guide*. Moline, IL: Deere & Company Service Publications.
 12. Brusnighan, D.A., M.H. Yearn, W.E. Field, and **S.A. Freeman**, eds. 1994. *Improving Farmstead Accessibility*. West Lafayette, IN: Breaking New Ground.

Refereed Conference Proceedings (n=23)

1. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2020. Applied machine learning in agro-manufacturing occupational incidents. in *Procedia Manufacturing* 48(2020): 24-30. 48th SME North American Manufacturing Research Conference (Cancelled due to COVID-19).
2. Haughery, J.R., G.A. Mosher, and **S.A. Freeman**. 2019. The use of applied engineering in an engineering-dominant culture. In 2019 *ATMAE Conference Proceeding Papers*, Charlotte, NC, 6-8 November.

3. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2017. Classifying and predicting occupational incidents severity. In *2017 ATMAE Conference Proceeding Papers*. Cincinnati, OH, 1-3 November.
4. Laingen, M.A., **Freeman, S.A.**, Brumm, T.J., Shelley, M.C. 2015. Examining the use of engineering internship workplace competency assessments for continuous improvement. In *Proceedings 122nd ASEE Annual Conference & Exposition*. Seattle, WA, 14-17 June.
5. Boylan-Ashraf, P.C., **Freeman, S.A.**, Shelley, M.C. 2014. A case for a reform in teaching introductory, fundamental engineering mechanics courses. In *Proceedings 121st ASEE Annual Conference & Exposition*. Indianapolis, IN, 15-18 June.
6. Mosher, G., **S.A. Freeman**, D.W. Field, and C.R. Hurburgh. 2009. Development of a quality management course for adult learners using backward design. In *2009 ATMAE Conference Proceeding Papers*. Louisville, KY, 10 - 14 November.
7. Hoffa, D.W. and **S. A. Freeman**. 2008. Synopsis laboratory reports: Effects on student learning and curricular benefits. In *Proceedings 2008 ASEE Annual Conference & Exposition*. Pittsburgh, PA, 22 - 25 June.
8. Sgro, S. and **S. A. Freeman**. 2008. Teaching critical thinking using understanding by design. In *Proceedings 2008 ASEE Annual Conference & Exposition*. Pittsburgh, PA, 22 - 25 June.
9. Carroll, M., D.W. Field, and **S.A. Freeman**. 2005. Industrial experiences for undergraduate students: Comparing and contrasting programs at Eastern Kentucky University and Iowa State University. In *Selected Papers - 38th Annual Convention of the National Association of Industrial Technology*. St. Louis, MO, 16 - 19 November.
10. **Freeman, S.A.** and D.W. Field. 2004. Student perceptions of web-based supplemental instruction. In *Selected Papers - 37th Annual Convention of the National Association of Industrial Technology*. Louisville, KY, 20 - 23 October.
11. Ancar, L.N., **S.A. Freeman**, and D.W. Field. 2004. Technology learning community: Enhancing traditional undergraduate education. In *Selected Papers - 37th Annual Convention of the National Association of Industrial Technology*. Louisville, KY, 20 - 23 October.
12. **Freeman, S.A.** and M.J. Dyrenfurth. 2001. Using peer assessments in team activities. In *Selected Papers - 34th Annual Convention of the National Association of Industrial Technology*. Dearborn, MI, 31 October - 3 November.
13. Field, D.W., **S.A. Freeman**, M.J. Dyrenfurth, and D. Hunter. 2001. Program and learner assessment in the technology learning community at Iowa state. In *Selected Papers - 34th Annual Convention of the National Association of Industrial Technology*. Dearborn, MI, 31 October - 3 November.
14. **Freeman, S.A.**, D.W. Field, and M.J. Dyrenfurth. 2000. The technology learning community experience at Iowa state university. In *Selected Papers - 33rd Annual Convention of the National Association of Industrial Technology*. Pittsburgh, PA, 1 - 4 November.
15. **Freeman, S.A.** and K.M. Embleton. 2000. Student perceptions of web-based supplemental instruction in safety curricula. In *Selected Papers - 33rd Annual Convention of the National Association of Industrial Technology*. Pittsburgh, PA, 1 - 4 November.

16. Field, D.W., **S.A. Freeman**, and M.J. Dyrenfurth. 2000. Student progression in technological capability and understanding: a conceptual model for assessment. In *Proceedings 2000 Frontiers in Education Conference*. Kansas City, MO, 18 - 21 October.
17. **Freeman, S.A.**, D.W. Field, and M.J. Dyrenfurth. 1999. Opportunities for contextual learning in safety, manufacturing, and training curricula. In *Selected Papers - 32nd Annual Convention of the National Association of Industrial Technology*. Panama City, FL, 17 - 20 November.
18. **Freeman, S.A.** and K.M. Embleton. 1999. WebCT Experiences with the on-line delivery of safety curriculum. In *Selected Papers - 32nd Annual Convention of the National Association of Industrial Technology*. Panama City, FL, 17 - 20 November.
19. **Freeman, S.A.** and D.W. Field. 1998. Benefits of a cross-functional safety curriculum. In *Selected Papers - 31st Annual Convention of the National Association of Industrial Technology*. Indianapolis, IN, 21 - 24 October.
20. **Freeman, S.A.**, S.D. Whitman, and R.L. Tormoehlen. 1996. Internet childhood safety and health resource guide. In *Proc. 6th International Conference on Computers in Agriculture*. Cancun, Mexico, 10 - 14 June.
21. **Freeman, S.A.**, W.E. Field, and D.D. Jones. 1994. A case study in knowledge system acceptance. In *Proc. 5th International Conference on Computers in Agriculture*. Orlando, FL, 5 - 9 February.
22. **Freeman, S.A.** and W.E. Field. 1992. An information delivery system for rural assistive technology. In *Proc. 4th International Conference on Computers in Agricultural Extension Programs*. Lake Buena Vista, FL, 28 - 31 January.
23. **Freeman, S.A.**, T.D. Valco, and A.D. Whittaker. 1990. TEXAS FARMDAY: farm accident risk management & data acquisition system. In *Proc. 3rd International Conference on Computers in Agricultural Extension Programs*. Lake Buena Vista, FL, 31 January - 1 February.

Extension Publications (n=6)

1. C.V. Schwab, **S.A. Freeman**, and L. Miller. 2001. Safe farm: lend an ear to hearing protection. Iowa State University Cooperative Extension bulletin PM 1518j.
2. **Freeman, S.A.**, C.V. Schwab, and L. Miller. 2000. Safe farm: keep active farmers safe in later life. Iowa State University Cooperative Extension bulletin PM 1841a.
3. Whitman, S.D., **S.A. Freeman**, and R.L. Tormoehlen. 1996. Preventing rural childhood injuries, No. 3. Purdue University Cooperative Extension Service bulletin 4H-839.
4. Whitman, S.D., **S.A. Freeman**, and R.L. Tormoehlen. 1995. Preventing rural childhood injuries, No. 2. Purdue University Cooperative Extension Service bulletin 4H-831.
5. **Freeman, S.A.** and S.D. Whitman. 1995. Preventing rural childhood injuries, No. 1. Purdue University Cooperative Extension Service bulletin 4H-823.
6. McVea, T.Z., **S.A. Freeman**, and E.J. Sheldon. 1994. Farming with a respiratory impairment. *Special Breaking New Ground Technical Report - Plowshares #20*. West Lafayette, IN: Breaking New Ground.

Technical Papers (n=20)

1. **Freeman, S.A.**, C.V. Schwab, and Q. Jiang. 2007. Quantifying farm stressors. NIFS Paper No. 2007-02. Madison, WI: NIFS.
2. Gillette, J.C., T.R. Derrick, C.V. Schwab, **S.A. Freeman**, C.A. Stevermer, and S.A. Meardon. 2007. Evaluation of occupational carrying tasks for farm youth. NIFS Paper No. 2007-03. Madison, WI: NIFS.
3. Keren, N., **S.A. Freeman**, and C.V. Schwab. 2006. Does SH&E education in higher education institutes lead to a change in cognitive patterns among graduates? Des Plaines, IL: American Society of Safety Engineers. Safety 2006: American Society of Safety Engineers Annual Professional Development Conference & Exposition. Seattle, WA, 10-14 June.
4. **Freeman, S.A.**, C.V. Schwab, and J.L.P. Judge. 2005. An investigation of three physical parameters of PTO entanglements. NIFS Paper No. 2005-05. Madison, WI: NIFS.
5. Schwab, C.V., **S.A. Freeman**, and T.J. Brumm. 2003. Pre-professional's perceptions of agricultural hazards and practiced safety behaviors at Iowa State University. NIFS Paper No. 2003-11. Madison, WI: NIFS.
6. Schwab, C.V. and **S.A. Freeman**. 2002. Agricultural systems technology pre-professional's perceptions of agricultural hazards and practiced safety behaviors. NIFS Paper No. 2002-02. Columbia, MO: NIFS.
7. **Freeman, S.A.** and C.V. Schwab. 2002. The role of volunteer farm safety organizations. NIFS Paper No. 2002-04. Columbia, MO: NIFS.
8. **Freeman, S.A.** 1999. Potential impact of a ROPS retrofit policy in central Iowa. ASAE Paper No. 99-7040. St. Joseph, MI: ASAE.
9. Schwab, C.V., T. Pollard, **S.A. Freeman**, and S. Marley. 1999. Assessment of Iowa auger-related injuries and farmers' perceptions of safe auger usage. NIFS Paper No. 99-18. Columbia, MO: National Institute for Farm Safety, Inc.
10. Whitman, S.D., R.L. Tormoehlen, and **S.A. Freeman**. 1997. A master volunteer program for rural child safety. NIFS Paper No. 97-10. Columbia, MO: NIFS.
11. **Freeman, S.A.**, K.W. Kelley, D.E. Maier, and W.E. Field. 1996. Review of entrapments in bulk agricultural materials at commercial grain facilities. ASAE Paper No. 96-5029. St. Joseph, MI: ASAE.
12. **Freeman, S.A.**, S.D. Whitman, and C.L. Barrett. 1995. Baseline childhood farm safety data for Indiana. ASAE Paper No. 95-5281. St. Joseph, MI: ASAE.
13. **Freeman, S.A.**, E.J. Sheldon, and W.E. Field. 1994. Lessons learned in teaching an undergraduate course in agricultural safety and health. ASAE Paper No. 94-5011. St. Joseph, MI: ASAE.
14. **Freeman, S.A.**, W.E. Field, and D.D. Jones. 1993. Knowledge system based delivery of rural assistive technology. ASAE Paper No. 93-3038. St. Joseph, MI: ASAE.
15. **Freeman, S.A.** and W.E. Field. 1992. Object-oriented databases for rural assistive technology. ASAE Paper No. 92-3504. St. Joseph, MI: ASAE.
16. **Freeman, S.A.**, W.E. Field, and D.D. Jones. 1992. Knowledge system based selection of rural assistive technology. ASAE Paper No. 92-7029. St. Joseph, MI: ASAE.

17. **Freeman, S.A.** and W.E. Field. 1991. An intelligent rural assistive technology database. ASAE Paper No. 91-7503. St. Joseph, MI: ASAE.
18. **Freeman, S.A.** and W.E. Field. 1991. Safer selection of rural assistive technology using knowledge systems. ASAE Paper No. 91-5001. St. Joseph, MI: ASAE.
19. **Freeman, S.A.**, A.D. Whittaker, and J.M. McGrann. 1990. Machinery management tool for checking the physical constraints of overall farm plans. ASAE Paper No. 90-7022. St. Joseph, MI: ASAE.
20. **Freeman, S.A.**, A.D. Whittaker, and J.M. McGrann. 1989. Knowledge-based machinery management aid. ASAE Paper No. 89-7576. St. Joseph, MI: ASAE.

Presentations (n=193)

Invited National and International Presentations (n=45)

1. **Freeman, S.A.** 2020. Scholarship of teaching and learning for engineering faculty. Presented as part of a virtual faculty development program at Mercer University. 14 May.
2. **Freeman, S.A.** 2018. Foundations of safety leadership. Presented as part of week-long occupational safety and health training program sponsored by Iowa State University, Georgian Technical University, Georgian Railway Transport College, and Millennium Challenge Corporation. Tbilisi, Georgia, 25-31 May. Overall training lead: **S.A. Freeman.**
3. **Freeman, S.A.** 2018. Hearing conservation. Presented as part of week-long occupational safety and health training program sponsored by Iowa State University, Georgian Technical University, Georgian Railway Transport College, and Millennium Challenge Corporation. Tbilisi, Georgia, 25-31 May. Overall training lead: **S.A. Freeman.**
4. **Freeman, S.A.** 2018. Control of hazardous energy (lockout/tagout). Presented as part of week-long occupational safety and health training program sponsored by Iowa State University, Georgian Technical University, Georgian Railway Transport College, and Millennium Challenge Corporation. Tbilisi, Georgia, 25-31 May. Overall training lead: **S.A. Freeman.**
5. **Freeman, S.A.** 2018. Environmental heat exposure in the workplace. Presented as part of week-long occupational safety and health training program sponsored by Iowa State University, Georgian Technical University, Georgian Railway Transport College, and Millennium Challenge Corporation. Tbilisi, Georgia, 25-31 May. Overall training lead: **S.A. Freeman.**
6. **Freeman, S.A.** 2017. Introduction to occupational safety. Presented as part of week-long occupational safety and health training program sponsored by Iowa State University, Georgian Technical University, Georgian Railway Transport College, and Millennium Challenge Corporation. Tbilisi, Georgia, 12-16 June. Overall training lead: **S.A. Freeman.**
7. **Freeman, S.A.** 2017. Safety training for performance improvement. Presented as part of week-long occupational safety and health training program sponsored by Iowa State University, Georgian Technical University, Georgian Railway Transport College, and Millennium Challenge Corporation. Tbilisi, Georgia, 12-16 June. Overall training lead: **S.A. Freeman.**

8. **Freeman, S.A.** 2017. Safety training techniques. Presented as part of week-long occupational safety and health training program sponsored by Iowa State University, Georgian Technical University, Georgian Railway Transport College, and Millennium Challenge Corporation. Tbilisi, Georgia, 12-16 June. Overall training lead: **S.A. Freeman**.
9. **Freeman, S.A.** 2012. Classroom assessment techniques to quickly assess student learning. Presented for the Des Moines Area Community College. Des Moines, IA, 30 March.
10. **Freeman, S.A.** 2012. Delivering the occupational safety certificate in an online format. Presented for Georgian Technical University. Tbilisi, Republic of Georgia, 13 March.
11. **Freeman, S.A.** 2012. The role of university teaching centers in improving engineering education. Presented for Georgian Technical University. Tbilisi, Republic of Georgia, 12 March.
12. **Freeman, S.A.** 2012. Learner-centered teaching for engineering and technology. Presented for Georgian Technical University. Tbilisi, Republic of Georgia, 12 March.
13. **Freeman, S.A.**, S. Marcketti, G.R. Nonnecke, S.K. Mickelson, and C. Weiner. 2011. Learning community scholarship of teaching and learning. 13th Annual Learning Communities Institute. Ames, IA, 9 May.
14. **Freeman, S.A.** and S.K. Mickelson. 2011. Exploring the scholarship of teaching and learning. Presented for the University of Northern Iowa. Cedar Falls, IA, 22 April.
15. **Freeman, S.A.** 2009. Turning learning community activities into the scholarship of teaching and learning. 11th Annual Learning Communities Institute. Ames, IA, 11 May.
16. **Freeman, S.A.** 2008. Scholarship of teaching and learning. Presented for Nizhyn State University, Nizhyn, Ukraine, 25 September.
17. **Freeman, S.A.** 2008. Classroom assessment techniques to assess student learning. Presented for Nizhyn State University, Nizhyn, Ukraine, 24 September.
18. **Freeman, S.A.** 2008. Learner-centered teaching. Presented for Nizhyn State University, Nizhyn, Ukraine, 23 September.
19. **Freeman, S.A.** 2008. Scholarship of teaching and learning. Presented for the Punjab Agricultural University, Ludhiana, India, 3 June.
20. **Freeman, S.A.** 2008. Engaging students using classroom assessment techniques. Presented for the Punjab Agricultural University, Ludhiana, India, 3 June.
21. **Freeman, S.A.** 2008. Learner-centered teaching. Presented for the Punjab Agricultural University, Ludhiana, India, 3 June.
22. **Freeman, S.A.**, T.J. Brumm, M.T. Mendelson, and G.R. Nonnecke. 2007. Faculty scholarship, recognition, and rewards (panel discussion). 9th Annual Learning Communities Institute: The Adventure Starts Here. Ames, IA, 7 May.
23. **Freeman, S.A.** and N. Keren. 2007. The impact of safety education on cognitive patterns among graduates. 2007 Taiwan Association of Engineering Education and Management Meeting, National Changhua University, Changhua City, Taiwan, 9 March.
24. **Freeman, S.A.** and N. Keren. 2007. The impact of safety education on cognitive patterns among graduates. Presented for the Department of Industrial Management, National Taiwan University of Science and Technology, Taipei, Taiwan, 8 March.

25. **Freeman, S.A.** and N. Keren. 2007. Does SH&E higher education lead to changes in cognitive patterns among graduates? Presented for the Department of Industrial Education, National Taiwan Normal University, Taipei, Taiwan, 7 March.
26. **Freeman, S.A.** and N. Keren. 2007. The effect of consequence severity on decision making processes. Presented for the Institute of Intelligent Information and Communications Technology, Konan University, Kobe, Japan, 5 March.
27. **Freeman, S.A.**, T.J. Brumm, J.M. Hauptman, S.K. Mickelson, and G.R. Nonnecke. 2006. Faculty scholarship, recognition, and rewards (panel discussion). 8th Annual Learning Communities Institute: The Adventure Starts Here. Ames, IA, 8 May.
28. **Freeman, S.A.** 2006. An investigation of three physical parameters of PTO entanglements. 21st Annual Agricultural Machinery Conference. Cedar Rapids, IA, 2-4 May.
29. **Freeman, S.A.** 2006. Using WebCT to supplement engineering and technology courses. Presented for the Georgian Technical University Teaching and Learning Center. Tbilisi, Republic of Georgia, 15, March.
30. **Freeman, S.A.** 2005. An investigation of three physical parameters of PTO entanglements. 34th Annual Governor's Safety Conference. Des Moines, IA, 10 November.
31. **Freeman, S.A.** 2005. Learner-centered teaching in engineering/technology classrooms. Presented for the Georgian Technical University Teaching and Learning Center. Tbilisi, Republic of Georgia, 19, May.
32. **Freeman, S.A.** 2005. Are students learning what I am teaching? Classroom assessment techniques. Presented for the Georgian Technical University Teaching and Learning Center. Tbilisi, Republic of Georgia, 18, May.
33. **Freeman, S.A.**, T.J. Brumm, S.J. Carlson, J.M. Hauptman, S.K. Mickelson, and G.R. Nonnecke. 2005. Faculty scholarship, recognition, and rewards (panel discussion). 7th Annual Learning Communities Institute: How to Practice the Art of Student Engagement. Ames, IA, 11 May.
34. **Freeman, S.A.**, L.N. Ancar, D.W. Field, C. Keener, and R. Schulte. 2004. Involving industry professionals in the Technology Learning Community. 6th Annual Learning Communities Institute: Ideas in Action. Ames, IA, 9 May.
35. Awoniyi, B., M. Benjamin, K. Earnest, and A. Schuttinga. 2004. Supervision of Peer Mentors: Identifying Best Practices. (Expert panel included: S. Mickelson, **S.A. Freeman**, L.N. Ancar, M. Retalik, and C. Cordell). 6th Annual Learning Communities Institute: How to Practice the Art of Student Engagement. Ames, IA, 11 May.
36. **Freeman, S.A.** 2003. Quantifying farm stressors. 32nd Governor's Safety Conference. Des Moines, IA, 6 November.
37. **Freeman, S.A.** and D.W. Field. 2002. Implementing learning-centered assessment in industrial technology curriculum. Presented as part of Industrial Technology Department Chairs Meeting at the 35th Annual Convention of the National Association of Industrial Technology. Panama City, FL, 8 November.
38. **Freeman, S.A.** and K. Cones. 2002. Mentoring the academic (led discussion). 2002 Wakonse Conference on College Teaching. Shelby, MI, 23-28 May.

39. Brooke, C., C.L. Burras, **S.A. Freeman**, S.K. Mickelson, and H.N. Shapiro. 2002. The scholarship of learning communities: A panel discussion of current efforts and possibilities. 4th Annual Learning Communities Institute: Seasons of Success. Ames, IA, 14 May.
40. **Freeman, S.A.** 2002. Occupational safety at Iowa State University: Visions of the future. American Society of Safety Engineers, Hawkeye Chapter. Des Moines, IA, 1 April.
41. **Freeman, S.A.** 2000. Potential impact of a ROPS retrofit policy in Central Iowa. 29th Governor's Safety Conference. Des Moines, IA, 3 November.
42. **Freeman, S.A.** 1997. Don't go with the flow: rescue from flowing grain entrapments in commercial facilities. 1997 NIFS Summer Meeting, Indianapolis, IN, 24 June.
43. **Freeman, S.A.** and W.E. Field. 1996. Strategies for rescues from commercial grain storage facilities. 1996 National Safety Council Congress and Exposition, Orlando, FL, 28 October.
44. **Freeman, S.A.** 1996. The Internet: a tour on the information super-highway. Presented as part of *Senior Actives - Staying In But Reaching Out*, 1996 ASAE Annual International Meeting, Phoenix, AZ, 16 July.
45. **Freeman, S.A.** 1994. Selecting mobility aids for farmers and ranchers with physical disabilities. Presented as part of *Improving Farmstead Accessibility*, 1994 RESNA Meeting Pre-conference Training Workshop, Nashville, TN, 18 June.

Invited Outreach Presentations (15)

1. **Freeman, S.A.** 2008. Hazard Communications. OSHA 10-Hour General Industry Safety Training. Ames, IA, 5 April.
2. **Freeman, S.A.** 2007. Developing an effective safety orientation program. Safety & Risk Management Academy. Ames, IA, 26-28 September.
3. **Freeman, S.A.** 2007. Time management for safety professionals. Safety & Risk Management Academy. Ames, IA, 26-28 September.
4. **Freeman, S.A.** 2007. Safety training for performance improvement. Safety & Risk Management Academy. Ames, IA, 26-28 September.
5. **Freeman, S.A.** 2007. Hazard Communications. OSHA 30-Hour General Industry Safety Training. Ames, IA, 22 May.
6. **Freeman, S.A.** 2007. Effective safety training. 22nd Annual Agricultural Machinery Conference. Cedar Rapids, IA, 7-9 May.
7. **Freeman, S.A.** 2007. Hazard Communications. OSHA 10-Hour General Industry Safety Training. Ames, IA, 16 February.
8. **Freeman, S.A.** 2006. Developing an effective safety orientation program. Safety & Risk Management Academy. Ames, IA, 27-29 September.
9. **Freeman, S.A.** 2006. Time management for safety professionals. Safety & Risk Management Academy. Ames, IA, 27-29 September.
10. **Freeman, S.A.** 2006. Safety training for performance improvement. Safety & Risk Management Academy. Ames, IA, 27-29 September.

11. **Freeman, S.A.** 2004. Lightning safety. Presented as part of Construction Site Electrical Safety Issues at the Iowa Electric Cooperatives Momentum is Building 2004. Des Moines, IA, 5 February.
12. **Freeman, S.A.** 2000. How can I protect myself from becoming disabled? 2000 Iowa 4-H Youth Conference. Ames, IA, 20-21 June.
13. **Freeman, S.A.** 1999. Assessment and project planning. Presented as part of *Support and Remediation for Y2K: A Training Workshop*. Sponsored by Iowa State University, the Small Business Administration, the United States Department of Commerce, and the United States Department of Agriculture. Reno, NV, 3-4 June.
14. **Freeman, S.A.** 1999. Assessment and project planning. Presented as part of *Support and Remediation for Y2K: A Training Workshop*. Sponsored by Iowa State University, the Small Business Administration, the United States Department of Commerce, and the United States Department of Agriculture. Dallas, TX, 27-28 May.
15. **Freeman, S.A.** 1999. Assessment and project planning. Presented as part of *Support and Remediation for Y2K: A Training Workshop*. Sponsored by Iowa State University, the Small Business Administration, the United States Department of Commerce, and the United States Department of Agriculture. Ames, IA, 13-14 May.

National and International Conference Presentations (n=125)

1. Best, R. David, and **S.A. Freeman**. 2021. Quantifying COVID-19 Stressors: A departmental case study. 2021 Annual Conference of the Association of Technology, Management, and Applied Engineering. Orlando, FL, 2-5 November.
2. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2021. Identifying risk profiles of occupational incidents among agribusiness workers. 2021 Annual Conference of the Association of Technology, Management, and Applied Engineering. Orlando, FL, 2-5 November.
3. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2021. Machine learning for occupational slip-trip-fall incidents classification within commercial grain elevators. 2021 International Conference on Applied Human Factors and Ergonomics. Virtual Conference, 25-29 July.
4. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2020. Utilization of machine learning in analyzing post-incident state of occupational injuries in agro-manufacturing industries. 11th International Conference of Applied Human Factors and Ergonomics. Virtual Conference, 16-20 July.
5. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2019. Factors affecting medical costs of occupational disease-related injuries in agribusiness operations. 2019 Annual Conference of the Association of Technology, Management, and Applied Engineering. Charlotte, NC, 6-8 November.
6. Davoudi Kakhki, F. and **S.A. Freeman**. 2019. Project-based learning pedagogical approach in manufacturing technology: a case study. 2019 Annual Conference of the Association of Technology, Management, and Applied Engineering. Charlotte, NC, 6-8 November.
7. Haughery, J.R., G.A. Mosher, and **S.A. Freeman**. 2019. The use of applied engineering in an engineering-dominant culture. 2019 Annual Conference of the Association of Technology, Management, and Applied Engineering. Charlotte, NC, 6-8 November.

8. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2018. Development of a quantitative risk model for industrial occupational incidents. 2018 Annual Conference of the Association of Technology, Management, and Applied Engineering. Kansas City, MO, 7-9 November.
9. Haughery, J.R., G.A. Mosher, and **S.A. Freeman**. 2018. Case study of the coexistence of ATMAE and ABET accredited programs in an engineering department. 2018 Annual Conference of the Association of Technology, Management, and Applied Engineering. Kansas City, MO, 7-9 November.
10. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2017. Classifying and predicting occupational incidents severity using workers' compensation data. 2017 Annual Conference of the Association of Technology, Management, and Applied Engineering. Cincinnati, OH, 1-3 November.
11. Haughery, J.R., D.R. Raman, **S.A. Freeman**. 2017. First-year mechatronic experiences: Towards predicting student motivation. 2017 Annual Conference of the Association of Technology, Management, and Applied Engineering. Cincinnati, OH, 1-3 November.
12. Davoudi Kakhki, F., **S.A. Freeman**, and S. Bell. 2017. A quantitative evaluation of students' learning outcomes in principle of injury prevention online course. 2017 Annual Conference of the Association of Technology, Management, and Applied Engineering. Cincinnati, OH, 1-3 November.
13. Davoudi Kakhki, F., **S.A. Freeman**, and G.A. Mosher. 2017. Analyzing fatalities and injuries in U.S. agricultural confined space related incidents. 2017 Annual Conference of the International Society of Agricultural Safety and Health. Logan, UT, 25-29 June.
14. Harvey, M., J. Haughery, S. Ramaswamy, **S.A. Freeman**, and G.A. Mosher. 2016. Examining students' perceptions of helpfulness from asynchronous supplemental video modules in a hybrid technology course. 2016 Annual Conference of the Association of Technology, Management, and Applied Engineering. Orlando, FL, 2-5 November.
15. Bell, S.D., M. Harvey, and **S.A. Freeman**. 2016. Military veterans affinity group program: A proactive intervention for transition to higher education. 2016 Annual Conference of the Association of Technology, Management, and Applied Engineering. Orlando, FL, 2-5 November.
16. Haughery, J.R., D.R. Raman, **S.A. Freeman**, A. Kaleita, J. Olsen, and R. Martin. 2016. Quantitative analysis of mechatronics and student motivation in a first-year applied engineering course: preliminary results. 2016 Annual Conference of the Association of Technology, Management, and Applied Engineering. Orlando, FL, 2-5 November.
17. Harvey, M., **S.A. Freeman**, G.A. Mosher, and C.V. Schwab. 2015. Analysis of critical thinking skills of upper division technology students. 2015 Annual Conference of the Association of Technology, Management, and Applied Engineering. Pittsburgh, PA, 11-14 November.
18. Simpson, S.A., **S.A. Freeman**, and G.A. Mosher. 2015. Evaluating employees' perceptions of trust and safety climate in the university laboratory environment over two-levels of management. 2015 Annual Conference of the Association of Technology, Management, and Applied Engineering. Pittsburgh, PA, 11-14 November.

19. †Marcketti, S. and **S.A. Freeman**. 2015. SoTL evidence on promotion and tenure vitas: Five years of evidence. 40th Annual Conference of the Professional and Organizational Development Network in Higher Education. San Francisco, CA, 4-8 November.
20. Laingen, M.A., **Freeman, S.A.**, Brumm, T.J., Shelley, M.C. 2015. Examining the use of engineering internship workplace competency assessments for continuous improvement. 122nd ASEE Annual Conference & Exposition. Seattle, WA, 14-17 June.
21. Harvey, M., **S.A. Freeman**, G.A. Mosher, and C.V. Schwab. 2014. Assessment and characterization of the critical thinking skills of upper division technology students. 2014 Annual Conference of the Association of Technology, Management, and Applied Engineering. St. Louis, MO, 19-22 November.
22. Harvey, M. and **S.A. Freeman**. 2014. Factors Impacting Leadership in Logistics Operations. 2014 Annual Conference of the Association of Technology, Management, and Applied Engineering. St. Louis, MO, 19-22 November.
23. Simpson, S.A. and **S.A. Freeman**. 2014. Evaluating employees' trust of their organizational leadership and safety climate in the university laboratory environment. 2014 Annual Conference of the Association of Technology, Management, and Applied Engineering. St. Louis, MO, 19-22 November.
24. Leptien, J., S. Marcketti, **S.A. Freeman**, and A.M. VanDerZanden. 2014. Leveraging a fellowship program in support of faculty success. 39th Annual Conference of the Professional and Organizational Development Network in Higher Education. Dallas, TX, 5-9 November.
25. Harvey, M., **S.A. Freeman**, G.A. Mosher, and C.V. Schwab. 2014. Results and applications of the critical thinking assessment test (CAT) administered to technology capstone course students. 2014 Conference of the International Society for the Scholarship of Teaching and Learning. Quebec City, Quebec, Canada, 22-25 October.
26. Boylan-Ashraf, P.C., **Freeman, S.A.**, Shelley, M.C. 2014. A case for a reform in teaching introductory, fundamental engineering mechanics courses. 121st ASEE Annual Conference & Exposition. Indianapolis, IN, 15-18 June.
27. Ramaswamy, S., G.A. Mosher, and **S.A. Freeman**. 2013. Quality and safety perceptions of undergraduate STEM students. 2013 Annual Conference of the Association of Technology, Management, and Applied Engineering. New Orleans, LA, 20-23 November.
28. **Freeman, S.A.** 2013. The scholarship of teaching and learning for ATMAE faculty. 2013 Annual Conference of the Association of Technology, Management, and Applied Engineering. New Orleans, LA, 20-23 November.
29. **Freeman, S.A.**, J. Leptien, and A.M. VanDerZanden. 2013. New faculty mentoring for teaching success. 38th Annual Conference of the Professional and Organizational Development Network in Higher Education. Pittsburgh, PA, 7-10 November.
30. **Freeman, S.A.** 2013. SoTL in university promotion and tenure decisions. 2013 Conference of the International Society for the Scholarship of Teaching and Learning. Raleigh, NC, 2-5 October.
31. **Freeman, S.A.** 2013. SoTL as part of an institutional strategic plan. 2013 Lilly Conference on College & University Teaching - West. Pomona, CA, 14-16 March.

32. Field, D.W. and **S.A. Freeman**. 2012. Mini-seminar: A Pareto perspective of submissions to the Journal of Technology, Management, and Applied Engineering. 2012 Annual Conference of the Association of Technology, Management, and Applied Engineering. Nashville, TN, 14-17 November.
33. Keren, N. and **S.A. Freeman**. 2012. Evaluating program outcomes via decision making simulations. 2012 Annual Conference of the Association of Technology, Management, and Applied Engineering. Nashville, TN, 14-17 November.
34. **Freeman, S.A.**, H.S. Bender, and A.M. VanDerZanden. 2012. SoTL professional development for doctoral students. 2012 Conference of the International Society for the Scholarship of Teaching and Learning. Hamilton, Ontario, Canada, 24-27 October.
35. Mosher, G.A. and **S.A. Freeman**. 2011. Teaching large courses using online technologies: Lessons learned and future challenges. 2011 Annual Conference of the Association of Technology, Management, and Applied Engineering. Cleveland, OH, 9-12 November.
36. **Freeman, S.A.**, S.K. Mickelson, and A.M. VanDerZanden. 2011. SoTL as part of institutional strategic plan. 2011 Conference of the International Society for the Scholarship of Teaching and Learning. Milwaukee, WI, 20-23 October.
37. VanDerZanden, A.M, **S.A. Freeman**, and S.K. Mickelson. 2011. Focusing faculty programming to illustrate and support SoTL. 2011 Conference of the International Society for the Scholarship of Teaching and Learning. Milwaukee, WI, 20-23 October.
38. **Freeman, S.A.**, A.M. VanDerZanden, and S.K. Mickelson. 2010. Refocusing teaching center efforts and SoTL activities in times of economic challenge. 2010 Conference of the International Society for the Scholarship of Teaching and Learning. Liverpool, UK, 19-22 October.
39. VanDerZanden, A.M, **S.A. Freeman**, and S.K. Mickelson. 2010. Changing new faculty programming in response to need and economic challenge. 2010 Conference of the International Society for the Scholarship of Teaching and Learning. Liverpool, UK, 19-22 October.
40. Mosher, G., N. Keren, and **S.A. Freeman**. 2009. Do employee trust levels affect safety decision-making? 1st Annual Conference of the Association of Technology, Management, and Applied Engineering. Louisville, KY, 10-14 November.
41. Mosher, G., **S.A. Freeman**, and D.W. Field. 2009. Development of a quality management course for adult learners using backward design. 1st Annual Conference of the Association of Technology, Management, and Applied Engineering. Louisville, KY, 10-14 November.
42. Keren, N. and **S.A. Freeman**. 2009. Utilizing decision making simulations to assess student competencies. 1st Annual Conference of the Association of Technology, Management, and Applied Engineering. Louisville, KY, 10-14 November.
43. Fazarro, D., **S.A. Freeman**, and C. Patrick. 2009. Workshop #5: Scholarly publishing: Overcoming the fear factor and how to be productive in the field. 1st Annual Conference of the Association of Technology, Management, and Applied Engineering. Louisville, KY, 10-14 November.

44. Keren, N. and **S.A. Freeman**. 2009. Risk of secondary injury induced by the implementation of assistive technology. 1st Annual Conference of the Association of Technology, Management, and Applied Engineering. Louisville, KY, 10-14 November.
45. **Freeman, S.A.**, S.L. Carlson and S.K. Mickelson. 2009. Institutionalizing SoTL as part of the promotion and tenure process at Iowa State University. 2009 Conference of the International Society for the Scholarship of Teaching and Learning. Bloomington, IN, 21-25 October.
46. **Freeman, S.A.** 2009. Improved agricultural engineering instruction: The role of university teaching centers. 4th International Conference of Energy Efficiency and Agricultural Engineering. Rousse, Bulgaria, 1-3 October.
47. Laux, C., G. Mosher and **S.A. Freeman**. 2009. Factors affecting college students' knowledge and opinions of genetically modified foods. IAMA 19th Annual Food and Agribusiness World Forum and Symposium. Budapest, Hungary, 20-21 June.
48. Nonnecke, G.R., K.P. Saunders, and **S.A. Freeman**. 2009. Action research methods to assess service learning: The Ugandan school garden case study. 2009 NACTA/SERD Conference. Stillwater, OK, 17-20 June.
49. Nonnecke, G.R., G. Marquis, L. Burras, **S.A. Freeman**, K. Saunders, R. Kanwar, and D. Acker. 2009. Cultivating new leaders in global agriculture undergraduate experiential learning to develop multiple perspectives. 2009 NACTA/SERD Conference. Stillwater, OK, 17-20 June.
50. Mosher, G., N. Keren. and **S.A. Freeman**. 2008. Role of trust in safety-related workplace decisions. 41st Annual Convention of the National Association of Industrial Technology. Nashville, TN, 18-22 November.
51. Keren, N., **S.A. Freeman**, and J.O. Wright. 2008. Simulation to identify relationships between organizational factors and safe behavior. 41st Annual Convention of the National Association of Industrial Technology. Nashville, TN, 18-22 November.
52. Sgro, S., **S.A. Freeman**, and D.W. Field. 2008. Helping students build critical and creative thinking skills through the Understanding by Design approach. 41st Annual Convention of the National Association of Industrial Technology. Nashville, TN, 18-22 November.
53. Schwab, C.V., **S.A. Freeman**, and T.J. Brumm. 2008. Putting NAIT's outcome assessment accreditation model into practice. 41st Annual Convention of the National Association of Industrial Technology. Nashville, TN, 18-22 November.
54. Field, D.W., **S.A. Freeman**, and N. Keren. 2008. Safety issues in nanotechnology manufacturing. 41st Annual Convention of the National Association of Industrial Technology. Nashville, TN, 18-22 November.
55. **Freeman, S.A.**, J. Diers, and K. Saunders. 2008. ISU SoTL institute: A focused faculty development initiative to enhance student learning. 2008 Conference of the International Society for the Scholarship of Teaching and Learning. Edmonton, Alberta, Canada, 16 - 19 October.
56. **Freeman, S.A.**, C. Brooke, and S.K. Mickelson. 2008. Enhancing undergraduate education through faculty fellowships. 2008 Conference of the International Society for the Scholarship of Teaching and Learning. Edmonton, Alberta, Canada, 16 - 19 October.

57. **Freeman, S.A.** and D.W. Hoffa. 2008. Synopsis laboratory reports: Effects on student learning and curricular benefits. 2008 ASEE Annual Conference & Exposition. Pittsburgh, PA, 22 - 25 June.
58. Sgro, S. and **S. A. Freeman**. 2008. Teaching critical thinking using understanding by design. 2008 ASEE Annual Conference & Exposition. Pittsburgh, PA, 22 - 25 June.
59. Hunt, C.R., **S.A. Freeman**, and J. Sheen. 2007. Safety performance measurement: Practical application and techniques for assessment and evaluation. 40th Annual Convention of the National Association of Industrial Technology. Panama City Beach, FL, 24 - 27 October.
60. **Freeman, S.A.**, C.V. Schwab, and Q. Jiang. 2007. Quantifying farm stressors. 2007 National Institute for Farm Safety, Inc. Annual Meeting and Conference. Penticton, British Columbia, CA, 24 - 28 June.
61. Gillette, J.C., T.R. Derrick, C.V. Schwab, **S.A. Freeman**, C.A. Stevermer, and S.A. Meardon. 2007. Evaluation of occupational carrying tasks for farm youth. 2007 National Institute for Farm Safety, Inc. Annual Meeting and Conference. Penticton, British Columbia, CA, 24 - 28 June.
62. Hunt, C.R., **S.A. Freeman**, and J. Sheen. 2006. Reducing amputation injuries via machine safeguarding. 39th Annual Convention of the National Association of Industrial Technology. Cleveland, OH, 15 - 18 November.
63. Mills, T.R., N. Keren, and **S.A. Freeman**. 2006. Safety climate in manufacturing environments. 39th Annual Convention of the National Association of Industrial Technology. Cleveland, OH, 15 - 18 November.
64. Keino, L., **S.A. Freeman** and C. Hausafus. 2006. Integrating learning portfolios across the curriculum: Faculty Experiences. 3rd Annual Conference of the International Society for the Scholarship of Teaching and Learning. Washington, D.C., 9 - 12 November.
65. Hoffa, D.W. and **S.A. Freeman**. 2006. An evaluation of student performance on traditional vs. synopsis laboratory reports in industrial technology. 3rd Annual Conference of the International Society for the Scholarship of Teaching and Learning. Washington, D.C., 9 - 12 November.
66. **Freeman, S.A.** and H. Dangel. 2006. Policies and procedures for supporting the scholarship of teaching and learning at research universities. 3rd Annual Conference of the International Society for the Scholarship of Teaching and Learning. Washington, D.C., 9 - 12 November.
67. **Freeman, S.A.** and L.W. Zachary. 2006. Engineering SENCER Initiatives at Iowa State University. 2006 SENCER Summer Institute. Santa Clara, CA, 4-7 August.
68. **Freeman, S.A.**, L.W. Zachary, B.L. Steward, and S.K. Ong. 2006. SENCER Engineering: Engineering for Sustainability and Development. 2006 SENCER Summer Institute. Santa Clara, CA, 4-7 August.
69. Keren, N., **S.A. Freeman**, and C.V. Schwab. 2006. Does SH&E higher education lead to changes in cognitive patterns among graduates? Safety 2006: American Society of Safety Engineers Annual Professional Development Conference & Exposition. Seattle, WA, 10-14 June.

70. Schroeder, C., **S.A. Freeman**, C. Brooke, L. Baron-Nixon, and C. Bolinn. 2006. Maturation of campus-based SoTL programs: Defining features for thriving with momentum. 2006 CASTL Colloquium on the Scholarship of Teaching and Learning. Madison, WI, 1 -2 April.
71. Hill-Lott, C., **S.A. Freeman**, and D.W. Field, C. Hill-Lott. 2005. A critical evaluation of the content area coverage for safety in the NAIT certification exam. 38th Annual Convention of the National Association of Industrial Technology. St. Louis, MO, 16 - 19 November.
72. Field, D.W., **S.A. Freeman**, and W. Davis. 2005. When best practices in distance education and project management converge. 38th Annual Convention of the National Association of Industrial Technology. St. Louis, MO, 16 - 19 November.
73. Field, D.W., **S.A. Freeman**, and M. Carroll. 2005. Industrial experiences for undergraduate students: Comparing and contrasting programs at Eastern Kentucky University and Iowa State University. To be presented at 38th Annual Convention of the National Association of Industrial Technology. St. Louis, MO, 16 - 19 November.
74. Brooke, C., B.J. Allen, S.L. Carlson, and **S.A. Freeman**. 2005. The role of the provost's office in integrating SOTL into the work of a research university. 2nd Annual Conference of the International Society for the Scholarship of Teaching and Learning. Vancouver, British Columbia, Canada, 14 - 16 October.
75. Payette, P., W. Schlegel, **S.A. Freeman**, C. Bolinn, and J. Robinson. 2005. Strategies for cultivating a SoTL campus culture. 2nd Annual Conference of the International Society for the Scholarship of Teaching and Learning. Vancouver, British Columbia, Canada, 14 - 16 October.
76. Hoffa, D.W. and **S.A. Freeman**. 2005. An evaluation of laboratory styles and the effect on student learning. 2nd Annual Conference of the International Society for the Scholarship of Teaching and Learning. Vancouver, British Columbia, Canada, 14 - 16 October.
77. **Freeman, S.A.**, C.V. Schwab, and J.L.P. Judge. 2005. An investigation of three physical parameters of PTO entanglements. 2005 National Institute for Farm Safety, Inc. Annual Meeting and Conference. Wintergreen, VA, 26 - 30 June.
78. Brooke, C. and **S.A. Freeman**. 2004. Cultural change to support the scholarship of teaching and learning. 29th Annual Conference of the Professional and Organizational Development Network in Higher Education. Montreal, Quebec, Canada, 4 - 7 November.
79. **Freeman, S.A.**, D.W. Field, and J.O. Wright. 2004. Training institute for professional development and certification. 37th Annual Convention of the National Association of Industrial Technology. Louisville, KY, 20 - 23 October.
80. **Freeman, S.A.** and D.W. Field. 2004. Student perceptions of web-based supplemental instruction. 37th Annual Convention of the National Association of Industrial Technology. Louisville, KY, 20 - 23 October.
81. Field, D.W., **S.A. Freeman**, and J.O. Wright. 2004. Safety auditing for performance improvement. 37th Annual Convention of the National Association of Industrial Technology. Louisville, KY, 20 - 23 October.

82. Ancar, L.N., **S.A. Freeman**, and D.W. Field. 2004. Technology learning community: Enhancing traditional undergraduate education. 37th Annual Convention of the National Association of Industrial Technology. Louisville, KY, 20 - 23 October.
83. **Freeman, S.A.**, C.V. Schwab, and P.E. Patterson. 2004. Quantifying farm stressors pilot study. 2004 National Institute for Farm Safety, Inc. Annual Meeting and Conference, Key Stone, CO, 20-24 June.
84. **Freeman, S.A.** 2003. Safety issues among agricultural workers using assistive technology. 36th Annual Convention of the National Association of Industrial Technology. Nashville, TN, 19 - 22 November.
85. Schwab, C.V., **S.A. Freeman**, and T.J. Brumm. 2003. Pre-professional's perceptions of agricultural hazards and practiced safety behaviors at Iowa State University. 2003 National Institute for Farm Safety, Inc. Annual Meeting and Conference, Windsor, Ontario, Canada, 22-26 June.
86. **Freeman, S.A.** 2002. Application of peer assessments in base groups. 22nd Annual Lilly Conference on College Teaching. Oxford, OH, 21 - 24 November.
87. **Freeman, S.A.** 2002. Is alcohol abuse an occupational safety issue? 35th Annual Convention of the National Association of Industrial Technology. Panama City, FL, 6 - 9 November.
88. **Freeman, S.A.** and D.W. Field. 2002. Implementing learning-centered assessment in industrial technology curriculum. 35th Annual Convention of the National Association of Industrial Technology. Panama City, FL, 6 - 9 November.
89. Kornegay, A.L., **S.A. Freeman**, and D.W. Field. 2002. Learning communities: Does involvement affect minority student outcomes? 35th Annual Convention of the National Association of Industrial Technology. Panama City, FL, 6 - 9 November.
90. **Freeman, S.A.** and C.V. Schwab. 2002. The role of volunteer farm safety organizations: A case study of the Iowa farm safety council. 2002 National Institute for Farm Safety, Inc. Annual Meeting and Conference, Ponte Vedra Beach, FL, 23-27 June.
91. Schwab, C.V. and **S.A. Freeman**. 2002. Agricultural systems technology pre-professional's perceptions of agricultural hazards and practiced safety behaviors. 2002 National Institute for Farm Safety, Inc. Annual Meeting and Conference, Ponte Vedra Beach, FL, 23-27 June.
92. **Freeman, S.A.** 2001. Incorporating service learning into an upper division safety course. 34th Annual Convention of the National Association of Industrial Technology. Dearborn, MI, 31 October - 3 November
93. **Freeman, S.A.** and M.J. Dyrenfurth. 2001. Using peer assessments in team activities. 34th Annual Convention of the National Association of Industrial Technology. Dearborn, MI, 31 October - 3 November.
94. Field, D.W., **S.A. Freeman**, and M.J. Dyrenfurth. 2001. Program and learner assessment in the technology learning community at Iowa State. 34th Annual Convention of the National Association of Industrial Technology. Dearborn, MI, 31 October - 3 November.
95. **Freeman, S.A.**, D.W. Field, and M.J. Dyrenfurth. 2000. The technology learning community experience at Iowa State University. 33rd Annual Convention of the National Association of Industrial Technology. Pittsburgh, PA, 1 - 4 November.

96. **Freeman, S.A.** 2000. Student perceptions of web-based supplemental instruction in safety curricula. 33rd Annual Convention of the National Association of Industrial Technology. Pittsburgh, PA, 1 - 4 November.
97. Dyrenfurth, M.J. and **S.A. Freeman**. 2000. Student progression in technological capability and understanding: a conceptual model for assessment. 2000 Frontiers in Education Conference. Kansas City, MO, 18 - 21 October.
98. **Freeman, S.A.** 1999. WebCT Experiences with the on-line delivery of safety curriculum. 32nd Annual Convention of the National Association of Industrial Technology. Panama City, FL, 17 - 20 November
99. **Freeman, S.A.**, D.W. Field, and M.J. Dyrenfurth. 1999. Opportunities for contextual learning in safety, manufacturing, and training curricula. 32nd Annual Convention of the National Association of Industrial Technology. Panama City, FL, 17 - 20 November
100. Bradshaw, L.L. and **S.A. Freeman**. 1999. Electricity/electronics for occupational safety majors. 32nd Annual Convention of the National Association of Industrial Technology. Panama City, FL, 17 - 20 November
101. **Freeman, S.A.** 1999. Potential impact of a ROPS retrofit policy in Central Iowa. 1999 American Society of Agricultural Engineers/Canadian Society of Agricultural Engineers Annual International Meeting. Toronto, Ontario, Canada, 18-21 July.
102. **Freeman, S.A.** and D.W. Field. 1998. Benefits of a cross-functional safety curriculum. 31st Annual Convention of the National Association of Industrial Technology. Indianapolis, IN, 21 - 24 October.
103. **Freeman, S.A.** 1998. Tracking sales of tractors without ROPS in central Iowa. 1998 National Institute for Farm Safety, Inc. International Summer Conference, Winnipeg, Manitoba, Canada, 21-25 June.
104. **Freeman, S.A.** 1996. Farm safety efforts at Purdue University. National Pork Producers Farm Safety Workshop, Chicago, IL, 30 December.
105. **Freeman, S.A.** 1996. Review of entrapments in bulk agricultural materials at commercial grain facilities. 1996 American Society of Agricultural Engineers Annual International Meeting, Phoenix, AZ, 14-18 July.
106. **Freeman, S.A.** 1996. Summary of grain entrapments in commercial facilities. Workshop on Strategies for Rescues from Grain Storage Facilities, Lafayette, IN, 17-18 April.
107. **Freeman, S.A.** 1995. Baseline childhood farm safety data for Indiana. 1995 American Society of Agricultural Engineers Annual International Meeting, Chicago, IL, 18-23 June.
108. **Freeman, S.A.** and S.D. Whitman. 1995. Childhood safety survey of Indiana farmers. Child & Adolescent Rural Injury Control Conference, Middleton, WI, 8-9 March.
109. **Freeman, S.A.** and S.D. Whitman. 1994. Careful country safety materials for teaching childhood farm safety. Agricultural Safety & Health: Detection, Prevention & Intervention, Columbus, OH, 24-26 August.
110. Whitman, S.D. and **S.A. Freeman**. 1994. Improving your rural business with the ADA. Agricultural Safety & Health: Detection, Prevention & Intervention. 1994, Columbus, OH, 24-26 August.

111. **Freeman, S.A.** 1994. Lessons learned in teaching an undergraduate course in agricultural safety and health. 1994 American Society of Agricultural Engineers International Summer Meeting, Kansas City, MO, 19-22 June.
112. **Freeman, S.A.** 1994. A case study in knowledge system acceptance. 5th International Conference on Computers in Agriculture. Orlando, FL, 5 - 9 February.
113. **Freeman, S.A.** 1993. Knowledge system based delivery of rural assistive technology. 1993 American Society of Agricultural Engineers International Summer Meeting, Spokane, WA, 20-23 June.
114. Sheldon, E.J. and **S.A. Freeman.** 1993. Lesson plans and materials for undergraduate agricultural safety and health course. 1993 National Institute for Farm Safety, Inc. Summer Meeting, Coeur d'Alene, ID, 13-17 June.
115. **Freeman, S.A.** 1992. Object-oriented databases for rural assistive technology. 1992 American Society of Agricultural Engineers International Winter Meeting, Nashville, TN, 15-18 December.
116. **Freeman, S.A.** 1992. Using knowledge systems to select rural assistive technology. National AgrAbility Training Workshop, Indianapolis, IN, 7-10 December.
117. **Freeman, S.A.** 1992. Knowledge system based selection of rural assistive technology. 1992 American Society of Agricultural Engineers International Summer Meeting, Charlotte, NC, 21-24 June.
118. **Freeman, S.A.** 1992. Selecting mobility aids for farmers and ranchers with physical disabilities. 1992 International Rehabilitation Engineering Society of North America Meeting/National AgrAbility Training Workshop, Toronto, Ontario, Canada, 6-9 June.
119. **Freeman, S.A.** 1992. An information delivery system for rural assistive technology. 4th International Conference on Computers in Agricultural Extension Programs. Lake Buena Vista, FL, 28 - 31 January.
120. **Freeman, S.A.** 1991. An intelligent rural assistive technology database. 1991 American Society of Agricultural Engineers International Winter Meeting, Chicago, IL, 17-20 December.
121. **Freeman, S.A.** 1991. Selection of rural assistive technology using knowledge systems. USDA Education and Assistance Program for Farmers and Ranchers with Disabilities National Training Workshop, West Lafayette, IN, 11-13 November.
122. **Freeman, S.A.** 1991. Safer selection of rural assistive technology using knowledge systems. 1991 American Society of Agricultural Engineers International Summer Meeting, Albuquerque, NM, 23-26 June.
123. **Freeman, S.A.** 1990. Machinery management tool for checking the physical constraints of overall farm plans. 1990 American Society of Agricultural Engineers International Summer Meeting, Columbus, OH, 24-27 June.
124. **Freeman, S.A.** 1990. TEXAS FARMDAY: farm accident risk management & data acquisition system. 3rd International Conference on Computers in Agricultural Extension Programs. Lake Buena Vista, FL, Jan. 31 - Feb. 1.
125. **Freeman, S.A.** 1989. Knowledge-based machinery management aid. 1989 American Society of Agricultural Engineers International Winter Meeting, New Orleans, LA, 12-15 December.

Other Conference Presentations (n=6)

1. **Freeman, S.A.** 2010. Turning learning community activities into the scholarship of teaching and learning (SoTL). Learning Communities Mini-Institute. Ames, IA, 29 January.
2. **Freeman, S.A.**, L.N. Ancar, and T. Daniels. 2010. Best practices for increasing student-faculty interaction with minimal expense. Learning Communities Mini-Institute. Ames, IA, 29 January.
3. Hendrich, S., **S.A. Freeman**, and J. Thompson. 2008. Resilient habits of thinking – abilities for academic success. 10th Annual Learning Communities Institute. Ames, IA, 12 May.
4. Saunders, K.P., **S.A. Freeman**, A.M. Oldham, G.R. Nonnecke, and S.K. Mickelson. 2007. Assessing student learning in learning communities (panel discussion). 9th Annual Learning Communities Institute: The Adventure Starts Here. Ames, IA, 7 May.
5. Ancar, L.N., **S.A. Freeman**, and D.W. Field. 2003. Technology learning community: Enhancing traditional undergraduate education. 5th Annual Learning Communities Institute: The road less traveled...and that has made all the difference. Ames, IA, 13 May.
6. Field, D.W., **S.A. Freeman**, M.J. Dyrenfurth, D. Hunter, and C. Traynor. 2001. Event history analysis as an assessment methodology in the technology learning community. 3rd Annual Learning Communities Institute: Expanding the Community of Learners. Ames, IA, 7 May.

Faculty/Staff Development Workshops and Seminars (n=67)

1. *AGEP – Graduate Inclusion Graduate/Post-Doc Workshop: Graduate College Emerging Leaders Academy.* 2021. Role: co-facilitator as part of ISU CIRTTL AGEP NSF Project on graduate inclusion.
2. *Servant Leadership.* 2021. Role: facilitator as part of ISU Graduate College Emerging Leaders Academy
3. *Strengths Based Leadership.* 2021. Role: co-facilitator as part of ISU Graduate College Emerging Leaders Academy
4. *AGEP – Graduate Inclusion Graduate/Post-Doc Workshop: Graduate College Emerging Leaders Academy.* 2021. Role: co-facilitator as part of ISU CIRTTL AGEP NSF Project on graduate inclusion.
5. *Servant Leadership.* 2020. Role: facilitator as part of ISU Graduate College Emerging Leaders Academy
6. *Strengths Based Leadership.* 2020. Role: co-facilitator as part of ISU Graduate College Emerging Leaders Academy
7. *Servant Leadership.* 2020. Role: facilitator as part of ISU Graduate College Emerging Leaders Academy.
8. *AGEP – Graduate Inclusion Graduate/Post-Doc Workshop: Graduate College Emerging Leaders Academy.* 2019. Role: co-facilitator as part of ISU CIRTTL AGEP NSF Project on graduate inclusion.

9. *AGEP – Graduate Inclusion Faculty Workshop: Department of Department of Chemical and Biological Engineering*. 2018. Role: co-facilitator as part of ISU CIRTTL AGEP NSF Project on graduate inclusion.
10. *AGEP – Graduate Inclusion Faculty Workshop: Department of Biochemistry, Biophysics, and Molecular Biology*. 2018. Role: co-facilitator as part of ISU CIRTTL AGEP NSF Project on graduate inclusion.
11. *Inclusion Workshops: Mechanical Engineering*. 2018. Role: co-presenter as part of ISU CIRTTL AGEP NSF Project on graduate inclusion.
12. *Teaching and Learning Circle: Crucial Conversations*. 2015. Role: coordinator and discussion leader.
13. *Faculty Policies Related to Classroom Management*. 2015. Role: presenter as part of the 2015 CELT Teaching Symposium sponsored by the Center for Excellence in Learning and Teaching.
14. *Addressing Classroom Behavior Issues*. 2015. Role: invited presenter sponsored by Iowa State University Preparing Future Faculty Program.
15. *Leadership Panel*. 2014. Role: panelist as part of the 2014 Iowa State University Emerging Leaders Academy sponsored by the Office of the Senior Vice President and Provost.
16. *Addressing Classroom Behavior Issues*. 2014. Role: presenter as part of the 2014 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
17. *Did You Know? ISU Policies and Procedures*. 2014. Role: co-presenter as part of the 2014 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
18. *Addressing Classroom Behavior Issues*. 2014. Role: invited presenter sponsored by Iowa State University Preparing Future Faculty Program.
19. *Teaching and Learning Circle for New Department Chairs and Administrators: Faculty Incivility, The Rise of the Academic Bully Culture and What to Do About It*. 2013. Role: coordinator and discussion leader. Sponsored by Office of the Senior Vice President and Provost.
20. *Leadership Panel*. 2013. Role: panelist as part of the 2013 Iowa State University Emerging Leaders Academy sponsored by the Office of the Senior Vice President and Provost.
21. *Addressing Classroom Behavior Issues*. 2013. Role: presenter as part of the 2013 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
22. *Did You Know? ISU Policies and Procedures*. 2013. Role: co-presenter as part of the 2013 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
23. *Addressing Classroom Behavior Issues*. 2013. Role: invited presenter sponsored by Iowa State University Preparing Future Faculty Program.

24. *Exploring the Scholarship of Teaching and Learning*. 2013. Role: invited presenter sponsored by Iowa State University Preparing Future Faculty Program.
25. *Exploring the Scholarship of Teaching and Learning*. 2013. Role: invited presenter sponsored by HHMI Faculty Learning Community.
26. *Addressing Classroom Behavior Issues*. 2012. Role: presenter as part of the 2012 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
27. *Exploring the Scholarship of Teaching and Learning*. 2012. Role: invited presenter sponsored by Iowa State University Preparing Future Faculty Program.
28. *Scholarship of Teaching and Learning at ISU*. 2011. Role: presenter as part of the 2011 New Faculty Orientation sponsored by the Office of the Executive Vice President and Provost.
29. *Addressing Classroom Behavior Issues*. 2011. Role: presenter as part of the 2011 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
30. *The Importance of Teaching in Academic Positions at Research Universities*. 2011. Role: invited presenter, Psychology Graduate Seminar.
31. *The Role of Departmental/University Citizenship*. 2011. Role: invited presenter sponsored by Iowa State University Preparing Future Faculty Program.
32. *The Importance of a Teaching Philosophy Statement*. 2011. Role: invited presenter as part of part of the Animal Science Teaching Workshop Series.
33. *Classroom Management*. 2011. Role: invited presenter sponsored by Iowa State University Preparing Future Faculty Program.
34. *Scholarship of Teaching and Learning at ISU*. 2010. Role: presenter as part of the 2010 New Faculty Orientation sponsored by the Office of the Executive Vice President and Provost.
35. *Addressing Classroom Behavior Issues*. 2010. Role: presenter (two sessions) as part of the 2010 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
36. *CELT/LC Scholarship of Teaching and Learning Institute*. 2010. Role: coordinator, discussion leader, and presenter for a two day workshop.
37. *Teaching and Learning Circle: Faculty Incivility*. 2010. Role: coordinator and discussion leader.
38. *In-Class Assessment: Techniques to Assess Student Learning Quickly*. 2009. Role: presenter (two sessions) as part of the 2009 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
39. *CELT/LT Scholarship of Teaching and Learning Institute*. 2009. Role: coordinator, discussion leader, and presenter for a two day workshop sponsored by the Center for Excellence in Learning and Teaching.
40. *What is the Scholarship of Teaching and Learning?*. 2009. Role: workshop presenter and discussion leader.

41. *Teaching and Learning Circle: Big Questions, Worthy Dreams*. 2009. Role: co-coordinator and discussion leader.
42. *What is the Scholarship of Teaching and Learning?*. 2008. Role: workshop presenter and discussion leader.
43. *Teaching and Learning Circle: What the Best College Teachers Do*. 2008. Role: coordinator and discussion leader as part of the 2008/09 CELT Teaching Partners Program.
44. *In-Class Assessment: Techniques to Assess Student Learning Quickly*. 2008. Role: presenter (two sessions) as part of the 2008 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
45. *Motivating and Engaging Engineering Students*. 2008. Role: workshop co-presenter (with Susan Yager) for the Department of Electrical and Computer Engineering.
46. *Classroom Assessment Techniques for Measuring Course Related Knowledge and Skills*. 2008. Role: workshop presenter and discussion leader for the Department of Horticulture.
47. *Teaching and Learning Circle: What the Best College Teachers Do*. 2007. Role: coordinator and discussion leader as part of the 2007/08 CELT Teaching Partners Program.
48. *In-Class Assessment: Techniques to Assess Student Learning Quickly*. 2007. Role: presenter (two sessions) as part of the 2007 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
49. *Miller Scholarship of Teaching and Learning Institute*. 2007. Role: coordinator, discussion leader, and co-presenter (with Kevin Saunders) for a two day workshop.
50. *Teaching and Learning Circle: What the Best College Teachers Do*. 2007. Role: coordinator and discussion leader.
51. *Scholarship of Teaching and Learning: Preparing a P&T Portfolio*. 2006. Role: workshop co-presenter with Corly Brooke for the Department of Curriculum and Instruction.
52. *Preparing a Teaching Portfolio: Showcasing Teaching*. 2006. Role: workshop co-presenter with Corly Brooke as part of a workshop series for the Department of World Languages and Cultures.
53. *Collecting Classroom Data for Scholarship of Teaching and Learning*. 2006. Role: workshop co-presenter with Kevin Saunders.
54. *Scholarship of Teaching and Learning in Communication*. 2006. Role: presenter as part of the Advanced Communication 2006 Workshop sponsored by the English Department.
55. *In-Class Assessment: Techniques to Assess Student Learning Quickly*. 2006. Role: presenter as part of the 2006 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
56. *Scholarship of Teaching and Learning*. 2006. Role: presenter as part of the 2006 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
57. *Teaching and Learning Circle: What the Best College Teachers Do*. 2005. Role: coordinator and discussion leader.

58. *Scholarship of Teaching and Learning in Engineering/Technology*. 2005. Role: presenter as part of a seminar series sponsored by the Agricultural and Biosystems Engineering Graduate Organization.
59. *In-Class Assessment: Techniques to Assess Student Learning Quickly*. 2005. Role: presenter as part of the 2005 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
60. *Teaching and Learning Circle: What the Best College Teachers Do*. 2005. Role: co-coordinator and discussion leader.
61. *Teaching and Learning Circle: Balancing Acts*. 2004. Role: coordinator and discussion leader.
62. *Scholarship of Teaching and Learning*. 2004. Role: presenter. Sponsored by the Iowa State University Preparing Future Faculty Program.
63. *Your Course Syllabus: Planning, Outcomes, Student Learning*. 2004. Role: presenter as part of the 2004 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
64. *Are Students Learning What I'm Teaching? One-Minute Assessment Techniques*. 2004. Role: presenter as part of the 2004 Iowa State University Teaching Seminar sponsored by the Center for Excellence in Learning and Teaching.
65. *Surviving the P&T Process*. 2004. Role: presenter as part of Promotion and Tenure Workshop III sponsored by the Colleges of Agriculture, Education, & Family and Consumer Sciences.
66. *Peer Review of Teaching*. 2004. Role: workshop coordinator and discussion leader.
67. *Teaching and Learning Circle: Tuesday's with Morrie*. 2003. Role: coordinator and discussion leader.

Grants and Projects (n=48) (Total = \$6,013,980)

Principal or Co-Principal Investigator (\$5,196,677)

1. **Co-Principal Investigator** of a \$916,795 graduate training grant at part of the Heartland Center: Occupational Safety Program. Department of Agricultural and Biosystems Engineering: 7/1/19-6/30/24. Funded by the National Institute for Occupational Safety and Health. This is ISU's component of a larger NIOSH Center to the University of Iowa. (ISU P.I. - N. Keren)
2. **Co-Principal Investigator** of a \$170,730 training grant, to provide occupational safety and health training in the Republic of Georgia. Department of Agricultural and Biosystems Engineering: 9/1/16-8/27/18. Funded by Georgian Railway Transport College. This is ISU's component of a \$3,771,790 grant to the Georgian Railway Transport College from the Millennium Challenge Account. (ISU P.I. - S.K. Mickelson)
3. **Principal Investigator** of a \$710,000 student success grant, MAAPS: Monitoring Advising Analytics to Promote Success: A Validation Study Proposed by the University Innovation Alliance. Department of Agricultural and Biosystems Engineering: 10/1/15-9/30/19. Funded by the U.S. Department of Education, First in the World initiative. This is ISU's component of an \$8,696,114 grant obtained by the University Innovation Alliance made up of 11 public research universities (overall P.I. - T. Renick, Georgia State University).

4. **Principal Investigator** of a \$568,124 university innovation grant to enhance student success through the expansion of institutional capacity and the use of predictive analytics. Department of Agricultural and Biosystems Engineering: 2/2/15-6/30/18. Funded by Arizona State University. This is ISU's component of an approximately \$6M funding program obtained by the University Innovation Alliance made up of 11 public research universities.
5. **Principal Investigator** of a \$9,000 curriculum development grant, Scholarship of Teaching and Learning. Department of Agricultural and Biosystems Engineering: 6/1/14-5/30/15. Funded by Engineering-LAS Online Learning, the Center for Excellence in Learning and Teaching, the Center for the Integration of Research, Teaching and Learning, and the Graduate College, Iowa State University.
6. **Co-Principal Investigator** on a \$126,000 curriculum development grant, Georgian Technical University (Republic of Georgia) Supporting the Establishment of an Agricultural Faculty, to help establish new agricultural curricula. Department of Agricultural and Biosystems Engineering: 4/10/14-12/31/14. Funded by the Georgian Technical University. (P.I. - S.K. Mickelson)
7. **Principal Investigator** of a \$15,000 planning grant, Planning Grant-Establishment of the University Alliance. Department of Agricultural and Biosystems Engineering: 8/1/13-3/31/14. Funded by Arizona State University.
8. **Principal Investigator** of a \$6,500 development grant, Occupational Safety in Great Britain: A Study Experience. Department of Agricultural and Biosystems Engineering: 1/15/14-6/30/14. Funded by the Council on International Programs, Iowa State University.
9. **Co-Principal Investigator** on a \$13,806 2013/2014 Miller Faculty Fellowship development grant, Development of Stand-Alone Safety Modules to Supplement and Enhance Students' Discipline-Specific Safety Knowledge, to provide safety management fundamentals to non-safety students in the College of Agriculture and Life Sciences. Department of Agricultural and Biosystems Engineering. Funded by the Provost's Office and the Center for Excellence in Learning and Teaching, Iowa State University. (P.I. - G.A. Mosher)
10. **Co-Principal Investigator** of a \$15,000 pilot grant to explore student perceptions of safety and quality concerns in agricultural work environments. Department of Agricultural and Biosystems Engineering: 1/1/13-6/30/14. Funded by the Central States Center of Agricultural Safety and Health, University of Nebraska Medical Center. (P.I. - G.A. Mosher)
11. **Co-Principal Investigator** of a \$149,617 of a Minority Graduate Education Activity Grant, IOWA AGEPE Evaluation Study, to provide evidence of the impact of past programming among the three Iowa Regents Universities and program elements to improve progression of under-represented minorities to the professoriate. My role (8.3% FTE) is to direct the ISU component. University of Iowa, Iowa State University and University of Northern Iowa: 6/1/11-5/31/12. Funded by the National Science Foundation. (P.I. - J.C. Keller, University of Iowa)
12. **Co-Principal Investigator** of a \$24,000 curriculum development grant to deliver TSM 270, TSM 276, and TSM 470 in an asynchronous web-based format. Department of Agricultural and Biosystems Engineering: 9/1/09-6/30/11. Funded by the Brenton Center, College of Agricultural and Life Sciences, Iowa State University. (P.I. - C.V. Schwab)

13. **Principal Investigator** of a \$6,500 development grant, Iowa State University Occupational Safety Partnerships with the Republic of Georgia. Department of Agricultural and Biosystems Engineering: 7/1/08-6/30/09. Funded by the Council on International Programs, Iowa State University.
14. **Co-Principal Investigator** on a \$35,030 2008/2009 Miller Faculty Fellowship development grant, Design and Implementation of an Autonomous on-line Safety Engineering Curriculum Module for Engineering Seniors, to provide safety fundamentals to engineering students prior to their senior design sequence. Funded by the Provost's Office and the Center for Excellence in Learning and Teaching, Iowa State University. (P.I. - N. Keren)
15. **Co-Principal Investigator** on a \$35,000 2008/2009 Miller Faculty Fellowship development grant, Cultivating Resilient Habits of Mind: New Ways to Educate Leaders, to help students develop independence, problem solving skills, team skills, and a strong sense of purpose. Funded by the Provost's Office and the Center for Excellence in Learning and Teaching, Iowa State University. (P.I. - S. Hendrich)
16. **Principal Investigator** of a \$5,000 gift to support PTO entanglement modeling and advancement of agricultural engineering: 2008. Funded by the GNK Foundation.
17. **Principal Investigator** of a \$7,500 curriculum development grant to help develop an undergraduate certificate in Occupational Safety. Department of Agricultural and Biosystems Engineering: 1/1/08-6/30/09. Funded by the College of Agricultural and Life Sciences, Iowa State University.
18. **Co-Principal Investigator** of a \$21,000 curriculum development grant to deliver TSM 272, TSM 370, and TSM 372 in an asynchronous web-based format. Department of Agricultural and Biosystems Engineering: 1/1/08-6/30/09. Funded by the Brenton Center, College of Agricultural and Life Sciences, Iowa State University. (P.I. - C.V. Schwab)
19. **Co-Principal Investigator** of a \$31,534 2007/2008 Miller Faculty Fellowship development grant, Utilization of the Process Tracing Methodology to Directly Assess Student Competency in 'Customer Focus', to develop a process to assess student competencies as a direct measure of student thinking. Funded by the Provost's Office and the Center for Excellence in Learning and Teaching, Iowa State University. (P.I. - N. Keren)
20. **Co-Principal Investigator** of a \$9,354 research grant, Risk of Secondary Injury Induced by the Implementation of Assistive Technology. Department of Agricultural and Biosystems Engineering: 7/1/07-6/30/08. Funded by the National Institute of Occupational Safety and Health through the Heartland Center for Occupational Health and Safety, University of Iowa. (P.I. - N. Keren)
21. **Co-Principal Investigator** of a \$7,000 development grant, Global Alliance for Loss Prevention. Department of Agricultural and Biosystems Engineering: 1/1/07-6/30/07. Funded by the College of Agriculture and the Council on International Programs, Iowa State University. (P.I. - N. Keren)
22. **Co-Principal Investigator** of a \$146,566 Higher Education Challenge Grant, Cultivating New Leaders in Global Agriculture: Undergraduate Experiential Learning to Develop Multiple Perspectives, to support emersion study abroad experiences in Uganda and India. My role (18%) is to assist in curriculum development and co-lead student study abroad experiences in India. Department of Horticulture, College of Agriculture: 10/1/06-9/30/09. Funded by the United States Department of Agriculture Cooperative State Research, Education and Extension Service. (P.I. - G.R. Nonnecke)

23. **Co-Principal Investigator** of a \$13,045 Learning Community Grant to support the Technology Learning Communities within the Department of Agricultural and Biosystems Engineering. Department of Agricultural and Biosystems Engineering: 2006/2007. Funded by the Vice Provost for Undergraduate Education and the Vice President for Student Affairs, Iowa State University. (P.I. - T.J. Brumm)
24. **Principal Investigator** of a \$9,850 development grant, Expanding Connections and Collaborations Between Iowa State University and the Republic of Georgia. Department of Agricultural and Biosystems Engineering: 1/1/06-6/30/06. Funded by the Council on International Programs, Iowa State University.
25. **Co-Principal Investigator** of a \$149,032 Higher Education Challenge Grant, Preparing Mindful Professionals and Citizens: A Pilot Academy for Leadership in Learning, to support faculty development and improved student learning. My role (3%) will be to assist with faculty development workshops and the development of undergraduate courses on leadership. Department of Natural Resource Ecology and Management, College of Agriculture: 8/1/05-7/31/08. Funded by the United States Department of Agriculture Cooperative State Research, Education and Extension Service. (P.I. - S.E. Jungst)
26. **Co-Principal Investigator** on a \$23,815 2005/2006 Miller Faculty Fellowship development grant, Useful and Effective Evaluation and Review of Instruction, to develop a student evaluation of instruction and peer review of instruction process focused on student learning and instruction improvement. Funded by the Provost's Office and the Center for Excellence in Learning and Teaching, Iowa State University. (P.I. - T.J. Brumm)
27. **Co-Principal Investigator** on a \$150,000 extension/research project, Iowa AgrAbility: Innovations That Work for Home and Farm, to provide assistance and technical support to Iowa farm families affected by disabilities. My role (5% FTE) is providing agricultural engineering expertise, coordinating rural safety issues and workplace safety issues for older farmers, and supervising the safety evaluation of recommended assistive technology. Iowa State University Cooperative Extension Service: 4/16/05-4/15/06. Funded the United States Department of Agriculture Extension Service. (P.I. - M.H. Yearns) [Note: Renewal Application]
28. **Co-Principal Investigator** of a \$16,600 Learning Community Grant to support the Technology Learning Communities within the Department of Agricultural and Biosystems Engineering. Department of Agricultural and Biosystems Engineering: 2005/2006. Funded by the Vice Provost for Undergraduate Education and the Vice President for Student Affairs, Iowa State University. (P.I. - T.J. Brumm)
29. **Co-Principal Investigator** on a \$150,000 extension/research project, Iowa AgrAbility: Innovations That Work for Home and Farm, to provide assistance and technical support to Iowa farm families affected by disabilities. My role (5% FTE) is providing agricultural engineering expertise, coordinating rural safety issues and workplace safety issues for older farmers, and supervising the safety evaluation of recommended assistive technology. Iowa State University Cooperative Extension Service: 4/16/04-4/15/05. Funded the United States Department of Agriculture Extension Service. (P.I. - M.H. Yearns) [Note: Renewal Application]
30. **Principal Investigator** (with D.W. Field) of a \$16,358 Learning Community Grant to support the Technology Learning Community within the Department of Industrial Education and Technology. Department of Industrial Education and Technology: 2004/2005. Funded by the Vice Provost for Undergraduate Education and the Vice President for Stu-

dent Affairs, Department of Industrial Education and Technology, and College of Education, Iowa State University.

31. **Co-Principal Investigator** on a \$766,500 research project, Evaluation of Occupational Carrying Tasks for Farm Youth, to investigate potential risk factors for farm children performing occupational carrying tasks to make recommendations regarding the loading (unilateral vs. bilateral) and the container size used for performing these tasks. My role (25% FTE) is the development of the carrying recommendations and associated educational materials. Department of Agricultural and Biosystems Engineering: 9/1/03-8/31/06. Funded the National Institutes of Health: National Institute for Occupational Safety and Health. (P.I. - C.V. Schwab)
32. **Co-Principal Investigator** on a \$150,000 extension/research project, Iowa AgrAbility: Innovations That Work for Home and Farm, to provide assistance and technical support to Iowa farm families affected by disabilities. My role (5% FTE) is providing agricultural engineering expertise, coordinating rural safety issues and workplace safety issues for older farmers, and supervising the safety evaluation of recommended assistive technology. Iowa State University Cooperative Extension Service: 4/1/03-3/31/04. Funded the United States Department of Agriculture Extension Service. (P.I. - M.H. Yearns) [Note: Renewal Application]
33. **Principal Investigator** (with D.W. Field) of a \$17,750 Learning Community Grant to support the Technology Learning Community within the Department of Industrial Education and Technology. Department of Industrial Education and Technology: 2003/2004. Funded by the Vice Provost for Undergraduate Education and the Vice President for Student Affairs, Department of Industrial Education and Technology, and College of Education, Iowa State University
34. **Co-Principal Investigator** on a \$20,000 internationalization curriculum and investment grant, Partnerships in Intercultural Graduate Education, to enhance intercultural exchanges in graduate education through technology. Dr. Freeman's role is working with graduate students and faculty interested in intercultural exchanges to identify and develop funding proposals to support these activities. College of Education: 7/1/02-6/30/03. Funded by the Council on International Programs, Iowa State University. (P.I. - N.E. Davis)
35. **Co-Principal Investigator** on a \$150,000 extension/research project, Iowa AgrAbility: Innovations That Work for Home and Farm, to provide assistance and technical support to Iowa farm families affected by disabilities. Dr. Freeman's role is providing agricultural engineering expertise, coordinating rural safety issues and workplace safety issues for older farmers, and supervising the safety evaluation of recommended assistive technology. Iowa State University Cooperative Extension Service: 4/15/02-4/14/03. Funded by the United States Department of Agriculture Extension Service. (P.I. - M.H. Yearns)
36. **Principal Investigator** (with D.W. Field) of a \$24,090 Learning Community Grant to support the Technology Learning Community within the Department of Industrial Education and Technology. Department of Industrial Education and Technology: 2002/2003. Funded by the Vice Provost for Undergraduate Education and the Vice President for Student Affairs, Department of Industrial Education and Technology, and College of Education, Iowa State University.
37. **Co-Principal Investigator** on a \$174,476 extension/research project, Iowa AgrAbility: Innovations That Work for Home and Farm, to provide assistance and technical support

to Iowa farm families affected by disabilities. Dr. Freeman's role is providing agricultural engineering expertise and coordinating rural safety issues and workplace safety issues for older farmers. Iowa State University Cooperative Extension Service: 4/1/01-3/31/02. Funded by the United States Department of Agriculture Extension Service. (P.I. - M.H. Yearns) [Note: Renewal Application]

38. **Principal Investigator** (with D.W. Field, M.J. Dyrenfurth) of a \$13,400 Learning Community Grant to support the Technology Learning Community within the Department of Industrial Education and Technology. Department of Industrial Education and Technology: 2001/2002. Funded by the Vice Provost for Undergraduate Education and the Vice President for Student Affairs, Iowa State University.
39. **Co-Principal Investigator** on a \$181,223 extension/research project, Iowa AgrAbility: Innovations That Work for Home and Farm, to provide assistance and technical support to Iowa farm families affected by disabilities. Dr. Freeman's role is providing agricultural engineering expertise and coordinating rural safety issues and workplace safety issues for older farmers. Iowa State University Cooperative Extension Service: 4/1/2000-3/31/2001. Funded by United States Department of Agriculture Extension Service. (P.I. - M.H. Yearns) [Note: Renewal Application]
40. **Principal Investigator** (with D.W. Field, M.J. Dyrenfurth) of a \$27,000 Learning Community Grant to support the Technology Learning Community within the Department of Industrial Education and Technology. Department of Industrial Education and Technology: 2000/2001. Funded by the Vice Provost for Undergraduate Education and the Vice President for Student Affairs, Iowa State University.
41. **Principal Investigator** (with D.W. Field, M.J. Dyrenfurth, and I. Lewis-McCormick) of a \$24,000 Learning Community Initiative Grant to develop a learning community designed to integrate new students into Industrial Technology. Department of Industrial Education and Technology: 1999/2000. Funded by the Vice Provost for Undergraduate Education and the Vice President for Student Affairs, Iowa State University.
42. **Principal Investigator** of a \$14,247 Experimental Distance Education Grant to develop on-line course material to allow off-campus students to take Safety in Manufacturing (ITEC 392) as a stand-alone on-line course. Department of Industrial Education and Technology: 1998/1999. Funded by Extended and Continuing Education, Iowa State University.
43. **Principal Investigator** of a \$5,235 research project to track the sales of tractors without roll-over protective structures in central Iowa to gauge the impact of proposed retrofit requirements for farm implement dealers prior to the resale of used equipment. Department of Industrial Education and Technology: 1998. Funded by the College of Education, Iowa State University.
44. **Co-Director** (with D.A. Maier) of a \$71,000 research contract to determine optimal methods of rescue for individuals entrapped in commercial grain facilities. Activities included: writing the proposal, analyzing entrapment data, and the development of a training video and other educational materials. Department of Agricultural and Biological Engineering, Purdue University: 1995-1997. Funded by the National Grain and Feed Foundation.

Faculty Associate (\$817,303)

45. **Faculty Associate** on a \$7,500 curriculum development grant to help develop an undergraduate minor in Learning and Leadership Sciences. Departments of Food Science and Human Nutrition, Natural Resource Ecology Management, Horticulture, Agricultural and Biosystems Engineering, and Educational Leadership and Policy Studies: 1/1/08-6/30/09. Funded by the College of Agricultural and Life Sciences, Iowa State University. (P.I. - S. Hendrich)
46. **Faculty Associate** on a \$14,483 instructional training grant to participate in the SENCER Summer Institute to develop a course on *International Development and Sustainable Engineering*. Department of Agricultural and Biosystems Engineering: 8/1/05 - 8/31/05. Funded by National Center for Science and Civic Engagement, National Science Foundation. (P.I. - B.L. Steward)
47. **Faculty Associate** on a \$25,000 2001/2002 Miller Faculty Fellowship development grant, Learning-Centered Assessment: Teaching Goals, Educator Action. Collaborating departments: Educational Leadership and Policy Studies; Food Science and Human Nutrition; Electrical Engineering and Computer Engineering; Industrial Education and Technology; Hotel, Restaurant, and Institutional Management; Agricultural and Biosystems Engineering; Forestry; and Agronomy. Funded by the Provost's Office and the Center for Teaching Excellence, Iowa State University. (P.I. - B.L. Licklider)
48. **Faculty Associate** on a \$530,000 extension project addressing Y2K issues for agricultural producers and small to midsize agribusinesses, manufactures, and other service organizations and businesses. Dr. Freeman's role was developing Y2K action planning and assessment curriculum appropriate for the target audiences and overall organization of the curriculum materials as part of the \$171,500 curriculum development subcontract under the direction of D.W. Field. Iowa State University Cooperative Extension Service: 2/1/99-6/30/2000. Funded by United States Department of Agriculture Extension Service. (P.I. - W. Bakker and S.R. Johnson)
49. **Faculty Associate** on a \$240,320 extension/research project, Iowa AgrAbility: Innovations That Work for Home and Farm, to provide assistance and technical support to Iowa farm families affected by disabilities. Dr. Freeman's role is providing agricultural engineering expertise and coordinating rural safety issues and workplace safety issues for older farmers. Iowa State University Cooperative Extension Service: 4/1/1999-3/31/2000. Funded by United States Department of Agriculture Extension Service. (P.I. - M.H. Yearns) [Note: Renewal Application]

Graduate Committees (n=116)

Major Professor (n=35)

1. Benjamin, Remon N. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.
2. Harvey, Matthew E. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.
3. Hirakawa Sugajara, Tammy. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.
4. Senecal, Caleb. Current M.S. student, Industrial and Agricultural Technology, Iowa State University.

5. Best, R. David. 2021. **M.S.** Industrial and Agricultural Technology, Iowa State University.
6. Davoudi Kakhki, Fatemeh. 2018. *Predictive analytics in agribusiness industries*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
7. Schaufenbuel, Jason. 2017. *Analysis of commercial lines insurance claims in the nursing home industry*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
8. Simpson, Stephen A. 2015. *A study of safety climate and employees' trust of their organizational leadership in university research laboratories*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
9. Laingen, Mark A. 2014. *Assessing engineering students' demonstration of workplace competencies in experiential learning environments through internships and cooperative work experiences*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
10. Weldon, Linda C. 2014. *Measuring difference in knowledge achievement and satisfaction between viewing interactive and linear online learning modules*. **M.S.** Industrial and Agricultural Technology, Iowa State University.
11. DeBower, Anthony K. 2014. **M.S.** Industrial and Agricultural Technology, Iowa State University.
12. Boylon-Ashraf, Anne C. (Peggy). 2013. *A new paradigm in teaching large engineering mechanics courses*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
13. Mujeeb, Ahad B. 2013. **M.S.** Industrial and Agricultural Technology, Iowa State University.
14. Braymen, Nathan T. 2012. **M.S.** Industrial and Agricultural Technology, Iowa State University.
15. Madsen, Jocelyn D. 2011. **M.S.** Industrial and Agricultural Technology, Iowa State University.
16. Ibrahim, Norhayati. 2011. *Exploring factors affecting part-time students' academic success in Malaysian polytechnic institutions*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
17. Withers, James H. 2011. *Chemical safety training: Lessons learned from a model for evaluating effectiveness*. **Ph.D.** Industrial Education and Technology, Iowa State University.
18. Goodwin, Mary E. 2008. *Gender role conflict, depression and personality's effect on help seeking behaviors, attitudes and academic performance*. **Ph.D.** Industrial Education and Technology, Iowa State University.
19. Ancar, LeQuetia N. 2008. *Social and academic factors of success and retention for students of color at a predominantly white institution in agricultural and engineering based disciplines*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
20. Sgro, Sergio D. 2006. *The efficacy of teaching oxyacetylene welding prior to gas metal arc welding for introductory materials and process courses in industrial technology*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.

21. Flann, Steven G. 2006. *An analysis of effect of local exhaust ventilation on tritium surface contamination in a governmental facility*. **M.S.** Industrial Education and Technology, Iowa State University.
22. Jiang, Qi. 2006. *Statistical analysis of safety and health issues*. **Ph.D.** Statistics and Industrial Education and Technology, Iowa State University
23. Hill-Lott, Chandra W. 2006. *An evaluation of the safety content in the National Association of Industrial Technology certification exam*. **M.S.** Industrial Education and Technology, Iowa State University.
24. Hoffa, David W. 2006. *Synopsis laboratory reports: Effects on student learning and curricular benefits*. **Ph.D.** Industrial Education and Technology, Iowa State University.
25. Vlad, Maria. 2005. **M.S.** Industrial Education and Technology, Iowa State University.
26. Ancar, LeQuetia N. 2004. *Investigating personal and professional connections through the Technology Learning Community*. **M.S.** Industrial Education and Technology, Iowa State University.
27. Peters, James G. 2004. **M.S.** Interdisciplinary Graduate Studies, Iowa State University.
28. Judge, Jon L. P. 2004. *An investigation of the physical parameters of PTO entanglements*. **M.S.** Industrial Education and Technology, Iowa State University.
29. Nagel, Stephen G. 2004. *The correlation of flammable liquid residential fires with socioeconomic and climate factors*. **M.S.** Industrial Education and Technology, Iowa State University.
30. Kaune, Jeffery S. 2004. **M.S.** Industrial Education and Technology, Iowa State University.
31. Kornegay, Alton L. 2003. *A study of the impact of minority undergraduate student interventions on academic success as measured by cumulative GPA*. **Ph.D.** Industrial Education and Technology, Iowa State University.
32. Hite, Daniel A. 2003. **M.S.** Industrial Education and Technology, Iowa State University.
33. Wright, James O. 2003. *Evaluation of workplace safety performance: A case study of an auditing process*. **Ph.D.** Industrial Education and Technology, Iowa State University.
34. Bounds, Frederick S. 2000. *Safety management in rural hospitals: An exploration of the relationships between the workers' compensation experience rating and hospital loss control management practices*. **M.S.** Industrial Education and Technology, Iowa State University.
35. Shelton, Patrick A. 1998. **M.S.** Industrial Education and Technology, Iowa State University.

Committee Membership (n=81)

1. Fairman, Jason. Current Ph.D. student, School of Education, Iowa State University.
2. Leifeld, Robert. Current Ph.D. student, School of Education, Iowa State University.
3. Miller, Jan. Current Ph.D. student, Occupational Safety, University of the West of Scotland.
4. Olaniba, Oyetunji Steven. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.

5. Ridgely, Lance W. Current Ph.D. student, School of Education, Iowa State University.
6. Schnell, Marlana D. Current Ph.D. student, School of Education, Iowa State University.
7. Sager, Julia L. Current M.S. student, Industrial and Agricultural Technology, Iowa State University.
8. Schultz, Michael S. Current M.S. student, Industrial and Agricultural Technology, Iowa State University.
9. Walls, Kayla. 2020. Understanding parent influences on youth decisions to enter agricultural grain storage facilities. **M.S.** Industrial and Agricultural Technology, Iowa State University.
10. Ryan, Saxon J. 2020. Student strengths and success: Characterization of student strengths, leadership domains and perceptions. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
11. Yedla, Anurag D. 2019. Predicting injury outcomes in mining industry - a machine learning approach. **M.S.** Computer Science, Iowa State University.
12. Mohd-Zainudin, Nurhaizan. 2019. Identification and analysis of worker safety hazards in midwest agricultural construction work sites. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
13. Kim, Laura M. 2018. Utility of stress in occupational and life decisions of correctional officers. **M.S.** Industrial and Agricultural Technology, Iowa State University.
14. Judge, Jon L. P. 2018. *Examination of safety climate through mixed methods and informed constructivist grounded theory.* **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
15. Devlin, Steven L. 2017. *Modeling of filament deposition rapid prototyping process with a closed form solution.* **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
16. Haughey, John R. 2017. *Student motivation and academic success: Examining the influences, differences, and economics of mechatronic experiences in fundamental undergraduate courses.* **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
17. Geisinger, Lee. 2017. *Investigating administrators and faculty perception regarding applied baccalaureate degrees at a midwestern university.* **Ph.D.** School of Education, Iowa State University.
18. Reynolds, Karen R. 2017. *Case study on early reports: the midwest community college.* **Ph.D.** School of Education, Iowa State University.
19. Carson, David. 2017. *The influence of college readiness and institutional intervention upon intention to persist among GED credentialed community college students.* **Ph.D.** School of Education, Iowa State University.
20. Ramaswamy, Sai Kumar. 2017. *Statistical analysis and decision tree modeling of workers' compensation claims data for improving safety outcomes in agribusiness industries.* **Ph.D.** Industrial and Agricultural Technology, Iowa State University.

21. Weatherly, Mark A. 2016. *The effect of athletic identity, occupational decision-making self-efficacy on academic motivation among revenue and nonrevenue-status sport NCAA Division II student-athletes*. **Ph.D.** School of Education, Iowa State University.
22. Upah, Sylvester C. 2016. *The impact of predictive analytics based advising on the selection of major among first-year, first-term students in engineering*. **Ph.D.** School of Education, Iowa State University.
23. Gorenz, Sally A. 2015. **M.S.** Agricultural Education, Iowa State University.
24. Seliger, Jared D. 2015. *The role of professional development in adjunct nursing faculty identity salience*. **Ph.D.** School of Education, Iowa State University.
25. Twait, Christine L. 2014. *Socialized scholarship: The role of departmental socialization on the institutionalization of Boyer's scholarship at one large research institution*. **Ph.D.** School of Education, Iowa State University.
26. Ramaswamy, Sai Kumar. 2014. *Pre-professional perception of safety and quality concerns in agricultural work environments*. **M.S.** Industrial and Agricultural Technology, Iowa State University.
27. Laugerman, Marcia R. 2012. *Academic and social integration variables influencing the success of community college transfer students in undergraduate engineering programs*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
28. Thomas, Phil. 2012. *Seamless transfer or crooked seams? The differentiated outcomes of associated's degree types completing the baccalaureate degree*. **Ph.D.** Educational Leadership and Policy Studies, Iowa State University.
29. Baughman, Jacquelyn A. 2012. *Student professional development: Competency-based learning and assessment in an undergraduate industrial technology course*. **Ph.D.** Industrial and Agricultural Technology and Biorenewable Resources and Technology, Iowa State University.
30. Shawn Bayouth. 2011. *Examining firefighter decision making process and choice in virtual reality*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
31. Demmer, Brian J. 2011. *Comparison and analysis of biobased/biodegradable and petrochemical cutlery flexibility*. **M.S.** Industrial and Agricultural Technology, Iowa State University.
32. Chen, Kuen-Min (Alfie). 2011. *The development of an on-line RFID-based facility performance monitoring system*. **M.S.** Industrial and Agricultural Technology, Iowa State University.
33. Mosher, Gretchen. 2011. *Measurement and analysis of the relationship between employee perceptions and safety and quality decision-making in the country grain elevator*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
34. Rockwood, Pamela R. 2010. *Board and superintendent perceptions of the Illinois Professional Standards for school leaders critical for superintendent success*. **Ph.D.** Educational Leadership and Policy Studies, Iowa State University.
35. Kepner, Gregory G. 2010. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.

36. Zuo, Jianying (Angela). 2010. *Analysis of window-observation recurrence data*. **Ph.D.** Statistics, Iowa State University.
37. Shady, Brett. 2009. *The Development of a RFID based leanness monitoring system*. **M.S.** Industrial and Agricultural Technology, Iowa State University.
38. Mead, Randy A. 2009. *A comparison of enrollment and academic success of dual credit and non-dual credit students at Des Moines Area Community College*. **Ph.D.** Educational Leadership and Policy Studies, Iowa State University.
39. Maguire, Kenneth J. 2009. *Economic impact of a community college experience: Understanding the factors that influence the post-college earnings of Iowa community college career and technical students from selected career clusters*. **Ph.D.** Educational Leadership and Policy Studies, Iowa State University.
40. Mills, Troy R. 2007. *The effects of safety climate on safety decision making*. **M.S.** Industrial and Agricultural Technology, Iowa State University.
41. Cena, Lorenzo. 2007. *A full Bayesian assessment of the effect of highway bypasses on crashes, crash rates and citizens' safety in Iowa communities*. **M.S.** Industrial Education and Technology, Iowa State University.
42. Voraphani, Natthapongs. 2007. *Color vision screening using eye movements*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
43. Samuel, Carlos. 2007. *Frequency analysis of hazardous material transportation incidents as a function of distance from origin to site of impact*. **M.S.** Industrial and Agricultural Technology, Iowa State University.
44. Laux, Chad M. 2007. *The impacts of a formal quality management system: A case study of implementing ISO 9000 at Farmer's Cooperative*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.
45. Klein, Karly L. 2007. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
46. Harmon, Gregory D. 2007. **M.S.** Interdisciplinary Graduate Studies, Iowa State University.
47. Batemon, Brice. 2006. **M.S.** Interdisciplinary Graduate Studies, Iowa State University.
48. Maxson, Connie G. 2006. *Schoolboard member and superintendent dispositions relating to student achievement*. **Ph.D.** Educational Leadership and Policy Studies, Iowa State University.
49. Ocken, Scott J. 2006. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
50. Li, Wenqing. 2006. **M.S.** Statistics, Iowa State University.
51. Ramos, Barbara K. 2006. *Academic achievement of year-round and traditional calendar elementary students in a school-within-a-school setting*. **Ph.D.** Educational Leadership and Policy Studies, Iowa State University.
52. Chang, Shu-Hui H. (Susan). 2006. *An assessment of the effectiveness of interaction in distance education based on student satisfaction with the learner-centered paradigm*. **Ph.D.** Industrial Education and Technology, Iowa State University.

53. Lee, Sooyen (Samson). 2006. *In-process tool condition monitoring systems in CNC turning operations*. **Ph.D.** Industrial Education and Technology, Iowa State University.
54. Meyer, Daniel J. 2006. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
55. Johnson, Brian L. 2006. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
56. Tiala, Sylvia T. 2005. *Virtual reality in the k-12 classroom*. **Ph.D.** Industrial Education and Technology, Iowa State University.
57. Herold, Therese. 2005. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
58. Zhang, Zhe (Julie). 2005. *In-process pokayoke development in multiple automatic manufacturing processes*. **Ph.D.** Industrial Education and Technology, Iowa State University.
59. Kirby, E. Dan. 2005. *Development of a fuzzy-nets-based in-process adaptive surface roughness controls system for CNC turning operations*. **Ph.D.** Industrial Education and Technology, Iowa State University.
60. Eljaam, Bassam A. 2005. *Customer satisfaction with cellular network performance: Issues and analysis*. **Ph.D.** Industrial Education and Technology, Iowa State University.
61. Thamma, Ravindra. 2004. *Theory and prediction of position error for automated guided vehicles with ultrasonic sensing based on time-of-flight theory*. **Ph.D.** Industrial Education and Technology, Iowa State University.
62. Kennedy, Sara K. 2004. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
63. Chrusciel, Donald. 2004. *Considerations for dealing with significant organizational change*. **Ph.D.** Industrial Education and Technology, Iowa State University.
64. Wunn, Lisa J. 2004. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
65. Larson, David J. 2004. **M.S.** Industrial Education and Technology, Iowa State University.
66. Earney, Nancy J. 2004. **MPA.** Political Science, Iowa State University.
67. Glackin, Douglas A. 2003. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
68. Steffen, John J. 2003. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
69. Kiger, Jill L. 2003. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
70. Jeschke, Korey K. 2003. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
71. Neel, Scott G. 2003. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.

72. McCue, Douglas L. 2003. *The National Association of Industrial Technology certification exam: Quality control assessment using item response theory and classical test theory methodologies*. **Ph.D.** Industrial Education and Technology, Iowa State University.
73. Lin, Shu-Huei (Lisa). 2003. *The relationships between student perception of constructivist learning environment, self-directed learning readiness, problem solving skills, and teamwork skills*. **Ph.D.** Industrial Education and Technology, Iowa State University.
74. Hoekstra, Erik. 2003. *An exploration of the value profit chain for training transfer: A study of the relationship of workplace transfer climate to business goals and objectives in one firm*. **Ph.D.** Educational Leadership and Policy Studies, Iowa State University.
75. Kerper, Marsha A. 2002. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
76. Rogers, Jennifer L. 2001. *Gait changes with unilateral and bilateral upper extremity loading*. **M.S.** Health and Human Performance, Iowa State University.
77. Ehmer, Judith M. 2000. *Construction site safety from a project management perspective*. **M.S.** Construction Engineering & Management, Iowa State University.
78. Colón, Jr., Israel. 1998. *The study of standards in vocational-technical teacher preparation*. **Ph.D.** Industrial Education and Technology, Iowa State University.
79. Colen, Jr., Charles R. 1998. *A study to ascertain the viability of ultrasonic nondestructive testing to determine the mechanical characteristics of wood/agricultural hardboards with soybean based adhesives*. **Ph.D.** Industrial Education and Technology, Iowa State University.
80. Pollard, Thomas L. 1998. **M.Ag.** Professional Agriculture, Iowa State University.
81. Wilson, Dru M. 1998. *The effects of tensile, shear, and adhesive mechanical properties when recycled epoxy/fiberglass is used as an alternative for microballoons in fiberglass foam core sandwiches*. **Ph.D.** Industrial Education and Technology, Iowa State University.

Mentoring Responsibilities

1. Director of the Graduate College Emerging Leaders Academy. 2019 - present.
2. Damiano, Luis. Graduate College Emerging Leaders Academy. 2022. Graduate College, Iowa State University.
3. Dantes, Princess Tiffany. Graduate College Emerging Leaders Academy. 2020. Graduate College, Iowa State University.
4. Haughery, John R. Faculty Mentoring Program. 2019 - 2020. Department of Agricultural and Biosystems Engineering, Iowa State University.
5. Sissel, Kelsey. Graduate College Emerging Leaders Academy. 2019. Graduate College, Iowa State University.
6. Finseth, Tor. Preparing Future Faculty Program. 2018 - 2019. Ph.D. Department of Aerospace Engineering, Iowa State University.
7. Upadhyay, Pawan. Preparing Future Faculty Program. 2017 - 2018. Ph.D. Department of Agricultural and Biosystems Engineering, Iowa State University.

8. Ryan, Saxon. Preparing Future Faculty Program. 2017-2018. Ph.D. Department of Agricultural and Biosystems Engineering, Iowa State University.
9. Ilgu, Muslum. Graduate College Emerging Leaders Academy. 2016. Graduate College, Iowa State University.
10. Gillon, Kathleen. University Innovation Alliance Post Doctoral Fellow. 2015 - 2016. Office of the President.
11. Keren, Nir. Faculty Mentoring Program. 2005 - 2015. Office of the Provost (2005-2006) and Department of Agricultural and Biosystems Engineering (2005 - 2015), Iowa State University.
12. Gillette, Meghan. Graduate College Emerging Leaders Academy. 2014. Graduate College, Iowa State University.
13. Baughman, Jacquelyn. Faculty Mentoring Program. 2012 - 2014. Department of Agricultural and Biosystems Engineering, Iowa State University.
14. Fowler, Chris. Emerging Leaders Academy. 2012 - 2013. Office of the Provost, Iowa State University.
15. Bayouth, Shawn. Preparing Future Faculty Program. 2008 - 2010. Ph.D. Department of Agricultural and Biosystems Engineering, Iowa State University.
16. Laux, Chad M. Preparing Future Faculty Program, 2005 - 2006. Ph.D. Department of Agricultural and Biosystems Engineering, Iowa State University.
17. Teaching mentor for departmental graduate teaching assistants and temporary instructors. 2004-2005. Department of Agricultural and Biosystems Engineering, Iowa State University.
18. Hoffa, David W. Preparing Future Faculty Program, 2004. Ph.D. Department of Agricultural and Biosystems Engineering, Iowa State University.
19. Siemek, Abby A. Freshman Honors Program, Spring 2004, Department of Industrial and Manufacturing Systems Engineering, Iowa State University.
20. Franco, Robert. Preparing Future Faculty Program, 2001 - 2002. MFA. Department of Interior Design, Iowa State University.
21. Dorenbush, Richelle M. Freshman Honors Program, Spring 2000, Department of Health and Human Performance, Iowa State University.

Teaching Responsibilities

Courses Taught at Iowa State University (Primary Teaching Responsibilities)

| Semester | Course number and Title | Credit | Enrollment |
|-----------------|---|---------------|-------------------|
| Fall 2021 | ABE/TSM 694 <i>Teaching Practicum</i> | 1/2/3 | 1/2/3 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 6 |
| Summer 2021 | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 1 |
| | TSM 657 <i>Curriculum Develop. in Technology & Engineering*</i> | 3 | 3 |
| Spring 2021 | ABE/TSM 694 <i>Teaching Practicum</i> | 1 | 5 |

| Semester | Course number and Title | Credit | Enrollment |
|-------------|---|--------|------------|
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 3 |
| | TSM 575 <i>Safety and Public Health Issues in Modern Society</i> | 2 | 5 |
| Fall 2020 | ABE/TSM 694 <i>Teaching Practicum</i> | 1 | 3 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 6 |
| Summer 2020 | TSM 657 <i>Curriculum Develop. in Technology & Engineering*</i> | 3 | 5 |
| Spring 2020 | ABE/TSM 694 <i>Teaching Practicum</i> | 1/3 | 4/1 |
| | HON 322F <i>Every Day Leadership</i> | 1 | 15 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 5 |
| Fall 2019 | ABE/TSM 694 <i>Teaching Practicum</i> | 1 | 1 |
| | HON 321H <i>Every Day Leadership</i> | 1 | 15 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 2 |
| Summer 2019 | TSM 657 <i>Curriculum Develop. in Technology & Engineering*</i> | 3 | 2 |
| Spring 2019 | ABE/TSM 694 <i>Teaching Practicum</i> | 1 | 7 |
| | HON 322D <i>Every Day Leadership</i> | 1 | 16 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 12 |
| Fall 2018 | ABE/TSM 694 <i>Teaching Practicum</i> | 1/2/3 | 2/1/1 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 4 |
| Spring 2018 | ABE/TSM 694 <i>Teaching Practicum</i> | 1/2 | 4/1 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 5 |
| Fall 2017 | ABE/TSM 694 <i>Teaching Practicum</i> | 1 | 3 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 2 |
| Summer 2017 | TSM 657 <i>Curriculum Develop. in Technology & Engineering*</i> | 3 | 5 |
| Spring 2017 | ABE/TSM 694 <i>Teaching Practicum</i> | 1/3 | 7/1 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 2 |
| Fall 2016 | GR ST 565 <i>Responsible Conduct of Research</i> | 1 | 9 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 4 |
| Spring 2016 | ABE/TSM 694 <i>Teaching Practicum</i> | 3 | 2 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 3 |
| Fall 2015 | ABE/TSM 694 <i>Teaching Practicum</i> | 3 | 1 |

| Semester | Course number and Title | Credit | Enrollment |
|-------------|---|--------|------------|
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 5 |
| Summer 2015 | TSM 657 <i>Curriculum Develop. in Technology & Engineering*</i> | 3 | 3 |
| Spring 2015 | ABE/TSM 694 <i>Teaching Practicum</i> | 1/3 | 1/1 |
| | TSM 371 <i>Occupational Safety Management</i> | 2 | 36 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 1 |
| | TSM/ABE/GRST 659X <i>Scholarship of Teaching & Learning II</i> | 2 | 8 |
| Fall 2014 | ABE/TSM 694 <i>Teaching Practicum</i> | 3 | 2 |
| | TSM 270 <i>Principles of Injury Prevention</i> | 3 | 182 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 1 |
| | TSM/ABE/GRST 658X <i>Scholarship of Teaching & Learning I</i> | 1 | 30 |
| Summer 2014 | TSM 657 <i>Curriculum Develop. in Technology & Engineering*</i> | 3 | 5 |
| Spring 2014 | AE/TSM 694 <i>Teaching Practicum</i> | 1/2 | 2/1 |
| | TSM 371 <i>Occupational Safety Management</i> | 2 | 22 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 4 |
| Fall 2013 | TSM 270 <i>Principles of Injury Prevention</i> | 3 | 176 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 1 |
| Summer 2013 | TSM 657 <i>Curriculum Develop. in Technology & Engineering*</i> | 3 | 3 |
| Spring 2013 | TSM 371 <i>Occupational Safety Management</i> | 2 | 24 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 3 |
| Fall 2012 | TSM 270 <i>Principles of Injury Prevention</i> | 3 | 169 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 8 |
| Summer 2012 | TSM 657 <i>Curriculum Develop. in Technology & Engineering*</i> | 3 | 1 |
| Spring 2012 | TSM 371 <i>Occupational Safety Management*</i> | 2 | 36 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 6 |
| Fall 2011 | TSM 270 <i>Principles of Injury Prevention*</i> | 3 | 119 |
| | TSM 493D <i>Occupational Safety Certificate Portfolio*</i> | 1 | 1 |
| Summer 2011 | TSM 657 <i>Curriculum Develop. in Technology & Engineering*</i> | 3 | 1 |
| Spring 2011 | TSM 272 <i>Occupational Safety Management*</i> | 2 | 28 |
| | TSM 493G <i>Occupational Safety Certificate Portfolio*</i> | 1 | 6 |

| Semester | Course number and Title | Credit | Enrollment |
|-------------|--|--------|------------|
| Fall 2010 | TSM 270 <i>Principles of Injury Prevention*</i> | 3 | 171 |
| Summer 2010 | FS HN/GLOBE 496 IN <i>Travel Course - India*</i> | 4 | 12 |
| | TSM 657 <i>Curriculum Develop. in Technology & Engineering *</i> | 1 | 3 |
| Spring 2010 | TSM 272 <i>Occupational Safety Management</i> | 2 | 28 |
| Fall 2009 | TSM 270 <i>Principles of Injury Prevention</i> | 3 | 202 |
| Summer 2009 | TSM 575 <i>Safety and Public Health Issues in Modern Society</i> | 2 | 10 |
| Spring 2009 | TSM 272 <i>Introduction to Occupational Safety</i> | 2 | 16 |
| Fall 2008 | TSM 270 <i>Principles of Injury Prevention</i> | 3 | 77 |
| Summer 2008 | TSM 496X <i>Technology Travel Course - India*</i> | 4 | 7 |
| Spring 2008 | TSM 370 <i>Occupational Safety</i> | 3 | 40 |
| Fall 2007 | TSM 272 <i>Introduction to Occupational Safety</i> | 2 | 22 |
| Summer 2007 | TSM 496X <i>Technology Travel Course - India*</i> | 4 | 4 |
| | TSM 657 <i>Curriculum Development for Industrial Technology*</i> | 3 | 2 |
| Spring 2007 | TSM 575 <i>Safety and Public Health Issues in Modern Society</i> | 2 | 20 |
| Fall 2006 | TSM 273 <i>Introduction to Occupational Safety</i> | 2 | 38 |
| Spring 2006 | AE 201 <i>Sophomore Seminar in Agricultural Engineering*</i> | 1 | 32 |
| | AE 301 <i>Junior Seminar in Agricultural Engineering*</i> | 1 | 4 |
| | AST 203 <i>Sophomore Seminar in Technology*</i> | 1 | 20 |
| | AST 303 <i>Junior Seminar in Technology*</i> | 1 | 8 |
| Fall 2005 | ITEC 575 <i>Safety and Public Health Issues in Modern Society</i> | 2 | 11 |
| Spring 2005 | ITEC 272 <i>Introduction to Occupational Safety</i> | 2 | 44 |
| Fall 2004 | ITEC 392 <i>Safety in Manufacturing</i> | 3 | 58 |
| Spring 2004 | ITEC 575 <i>Safety and Public Health Issues in Modern Society</i> | 2 | 32 |
| Fall 2003 | ITEC 272 <i>Introduction to Occupational Safety</i> | 2 | 28 |
| | ITEC 392 <i>Safety in Manufacturing</i> | 3 | 49 |
| Spring 2003 | ITEC 270 <i>Principles of Injury Prevention</i> | 3 | 54 |
| | ITEC 392 <i>Safety in Manufacturing</i> | 3 | 28 |
| Fall 2002 | ITEC 270 <i>Principles of Injury Prevention</i> | 3 | 63 |
| | ITEC 392 <i>Safety in Manufacturing</i> | 3 | 36 |

| Semester | Course number and Title | Credit | Enrollment |
|-------------|--|--------|------------|
| Spring 2002 | ITEC 270 <i>Principles of Injury Prevention</i> | 3 | 48 |
| | ITEC 392 <i>Safety in Manufacturing</i> | 3 | 35 |
| Fall 2001 | ITEC 110 <i>Introduction to Industrial Technology</i> | 1 | 36 |
| | ITEC 270 <i>Principles of Injury Prevention</i> | 3 | 49 |
| | ITEC 392 <i>Safety in Manufacturing</i> | 3 | 47 |
| Spring 2001 | ITEC 270 <i>Principles of Accident Prevention</i> | 3 | 55 |
| | ITEC 392 <i>Safety in Manufacturing</i> | 3 | 41 |
| Fall 2000 | ITEC 270 <i>Principles of Accident Prevention</i> | 3 | 49 |
| | ITEC 392 <i>Safety in Manufacturing</i> | 3 | 32 |
| Summer 2000 | ITEC 270 <i>Principles of Accident Prevention</i> | 3 | 10 |
| Spring 2000 | ITEC 111X <i>Technology Learning Community*</i> | 0.5 | 26 |
| | ITEC 270 <i>Principles of Accident Prevention</i> | 3 | 52 |
| | ITEC 392 <i>Safety in Manufacturing</i> | 3 | 19 |
| Fall 1999 | ITEC 111X <i>Technology Learning Community*</i> | 0.5 | 25 |
| | ITEC 270 <i>Principles of Accident Prevention</i> | 3 | 69 |
| | ITEC 392 <i>Safety in Manufacturing</i> | 3 | 35 |
| Spring 1999 | ITEC 270 <i>Principles of Accident Prevention</i> | 3 | 39 |
| | ITEC 372 <i>Handling of Products and Hazardous Materials</i> | 3 | 23 |
| Fall 1998 | ITEC 270 <i>Principles of Accident Prevention</i> | 3 | 47 |
| | ITEC 372 <i>Handling of Products and Hazardous Materials</i> | 3 | 24 |
| Spring 1998 | ITEC 372 <i>Handling of Products and Hazardous Materials</i> | 3 | 21 |
| Fall 1997 | ITEC 272 <i>Introduction to Occupational Safety</i> | 3 | 17 |
| | ITEC 372 <i>Handling of Products and Hazardous Materials</i> | 3 | 52 |

* These courses were collaboratively taught.

Courses Taught Prior to Iowa State University

Safety in Agriculture (ASM 350), Collaboratively taught; Department of Agricultural and Biological Engineering, Purdue University (Spring semesters, 1992 - 1997)

Introductory Surveying (AGEN 215); Department of Agricultural Engineering, Purdue University (Fall 1993, Spring 1994)

Artificial Intelligence Applications in Agriculture (AGEN 689), teaching assistant; Department of Agricultural Engineering, Texas A&M University (Fall, 1989)

Editorships

International Journal of Environmental Research and Public Health

Co-Editor, Special Issue: Safety Analytics in Occupational Settings (2020 - present)

Journal of Technology, Management, and Applied Engineering

Chair, Journal of Technology, Management, & Applied Engineering Board (2009 - 2012)

Chief Editor (2008 - 2009)

Assistant Editor (2007 - 2008)

National Safety Council (NSC)

Agricultural Division (1997 - 2000)

Reviewer Experience

Grants and Projects

National Center of Excellence for Prevention of Childhood Agricultural Injury (RFA-OH-20-007); National Institute for Occupational Safety and Health. (2021)

Postdoctoral Seed Grants; Iowa State University (2020, 2021)

Brown Graduate Fellowships; Iowa State University (2021)

Research Proposals; Shota Rustaveli National Science Foundation. (2015)

AgrAbility: Assistive Technology Program for Farmers with Disabilities; United States Department of Agriculture's National Institute of Food and Agriculture (2014)

Research Proposals; Shota Rustaveli National Science Foundation. (2011, 2012, 2013, 2015)

Research Proposals; Ontario Workplace Safety & Insurance Board Research Advisory Council. (2000, 2004, 2005, 2009, 2010, 2012)

Centers for Agricultural Disease and Injury Research, Education, and Prevention (PAR-11-022); National Institute for Occupational Safety and Health. (2011)

Research Proposals; Agriculture & Food Council of Alberta. (2011)

Research Proposals; Georgian National Science Foundation. (2006, 2007, 2008, 2009)

Centers for Agricultural Disease and Injury Research, Education, and Prevention (PAR-06-057); National Institute for Occupational Safety and Health. (2006)

Competitive Supplement for NIOSH Centers for Agricultural Disease and Injury Research, Education, and Prevention (PAR OH-04-012); National Institute for Occupational Safety and Health. (2004)

Centers for Agricultural Disease and Injury Research, Education, and Prevention (RFA OH-01-004); National Institute for Occupational Safety and Health. (2001)

Journals

Journal of Agricultural Safety and Health; American Society of Agricultural and Biological Engineers

Journal of AgroMedicine; Taylor & Francis

Applied Engineering in Agriculture; American Society of Agricultural and Biological Engineers

Journal of Research in Technical Careers, University of Nevada, Las Vegas
Journal of Technology, Management, and Applied Engineering; Association of Technology, Management, and Applied Engineering.
Journal of Industrial Technology; National Association of Industrial Technology
International Journal of Occupational and Environmental Health; Taylor & Francis
PLOS ONE; multidisciplinary open access journal
Resources; MDPI
Spanish Journal of Agricultural Research; Spanish National Institute for Agricultural and Food Research and Technology
The Surgery Journal; Theime
Transactions of the ASABE; American Society of Agricultural and Biological Engineers
Universal Journal of Agricultural Research, Horizon Research Publishing

Conference Proceedings

2021 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.
2019 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.
2018 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.
2017 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.
2016 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.
2015 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.
Selected Papers - 2014 Annual Convention; Association of Technology, Management, and Applied Engineering
2014 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.
Selected Papers - 2013 Annual Convention; Association of Technology, Management, and Applied Engineering
2013 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.
Selected Papers - 2012 Annual Convention; Association of Technology, Management, and Applied Engineering
2012 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.
2011 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.

2010 ISASH Conference Proceedings; International Society for Agricultural Safety and Health.

2009 NIFS Conference Proceedings; National Institute for Farm Safety.

2008 NIFS Conference Proceedings; National Institute for Farm Safety.

Selected Papers - 39th Annual Convention; National Association of Industrial Technology

Selected Papers - 38th Annual Convention; National Association of Industrial Technology

Selected Papers - 37th Annual Convention; National Association of Industrial Technology

Selected Papers - 36th Annual Convention; National Association of Industrial Technology

Textbooks

Occupational Safety and Health for Technologists, Engineers, and Managers; Prentice Hall

ASABE Educational Aids

2020 ASABE Educational Aids Competition

Professional Leadership Experience

Association of Technology, Management, and Applied Engineering (ATMAE) (1998 - present)

Executive Board (2002 - 2006)

Past President; Safety Division (2004 - 2006)

President; Safety Division (2002 - 2004)

President Elect; Safety Division (2001 - 2002)

International Society for Agricultural Safety and Health (ISASH) (1993 - present)

Professional Development Committee (2008 - present)

Co-Chair (2008 - 2011) (2014 - present)

Chair, Strategic Planning Committee (2021 - present)

2021 ISASH Annual Meeting Planning Committee (2020 - 2021)

2020 ISASH Annual Meeting Planning Committee (2019 - 2020)

Co-Chair; 2019 ISASH Annual Meeting (2018 - 2019)

2005 NIFS Annual Meeting Planning Committee (2004 - 2005)

NIFS Chair; 2004 National Symposium on Agricultural Health and Safety; A combined meeting of the National Institute for Farm Safety, NIOSH Agricultural Health & Safety Centers, and North American Agromedicine Consortium (2003 - 2004)

Research and Development Committee (2000 - 2003)

Chair; Home, Farmstead, and Leisure Time Committee (2000 - 2002)

Vice Chair; Home, Farmstead, and Leisure Time Committee (1996 - 2000)

Co-Chair; 1997 National Institute for Farm Safety's Summer Meeting (1996 - 1997)

American Society of Safety Professionals (ASSP) (1995 - present)

Faculty Advisor; Cyclone Student Section (1997 - 2019)

Student Section Subcommittee (2009 - 2013)

American Society of Agricultural and Biological Engineers (ASABE) (1986 - present)

Ergonomics, Safety, and Health Committee (1994 - present)

Vice Chair Awards, Iowa ASABE Section (2005 - 2006)

Session Coordinator: *Product Safety/Liability*, 14th Annual Agricultural Machinery Conference. Cedar Rapids, IA, May 3-5, 1999

Systems Analysis and Artificial Intelligence Committee (1988-1998)

Committee Officer; Systems Analysis and Artificial Intelligence Committee (1993-1997)

Session Coordinator: *Innovative Decision Making Applications*, International Winter Meeting of the ASAE. Atlanta, GA, December 13-16, 1994

Session Coordinator: *Risk Assessment and Supporting Software*, International Summer Meeting of the ASAE. Kansas City, MO, June 19-22, 1994

Session Coordinator: *Multimedia Knowledge-based Systems for Education*, International Winter Meeting of the ASAE. Chicago, IL, December 14-17, 1993

Session Coordinator: *Knowledge Systems Applications*, International Summer Meeting of the ASAE and CSAE. Spokane, WA, June 20-23, 1993

Planning Committee for Application of Advanced Information Technologies for Management of Natural Resources. Spokane, WA, June 17-19, 1993

Epsilon Pi Tau, Honor Society for Technology Professions (1999 - present)

Board of Directors (2021 - present)

Region 4 Director

Trustee; Alpha Xi Chapter (2020 - present)

Co-Trustee; Alpha Xi Chapter (2002 - 2020)

Alpha Epsilon, Honor Society of Agricultural Engineering (1986 - present)

National Secretary/Treasurer (1994 - 1999)

Iowa Farm Safety Council (1997 - 2020)

Board of Directors (1998 - 2020)

President (2001 - 2003)

Vice President (1999 - 2001)

Institutional Leadership/Service Experience

Department

Trustee; Alpha Xi Chapter of Epsilon Pi Tau (2020 - present)

Occupational Safety Engineering Focus Group (2005 - present)

Group Leader (2020 - present)

Graduate Programs Committee (2004 - 2010; 2012 - present)

Director of Graduate Education (2005 -2010; 2012 - present)

Promotion, Tenure, and Review Committee (2004 - 2005; 2005 - 2006; 2011 -2012; 2012 - 2013; 2013 - 2014; 2014 - 2015; 2016 - 2017; 2017 - 2018; 2018 - 2019; 2019 - 2020; 2020 - 2021; 2021 - 2022)

Chair (2012 - 2013; 2013 - 2014; 2014 - 2015; 2016 - 2017; 2017 - 2018; 2018 - 2019; 2019 - 2020; 2020 - 2021)

Agricultural and Biosystems Engineering Graduate Student Organization
Faculty Advisor (2005 - present)

Technology Curriculum Committee (2004 - present)
Vice Chair (2004 - 2006; 2020 - present))

Coordinator of the Industrial Technology Occupational Safety option (1997 - present)

Coordinator of the Occupational Safety Certificate (2010 - present)

Faculty Search Committees (15 positions) (2000 - present)

Awards and Honors Committee (2009 - 2010; 2018 - present)
Chair (2009 - 2010)

Equity, Diversity, and Inclusion Committee (2019 - present)

Co-Trustee; Alpha Xi Chapter of Epsilon Pi Tau (2002 - 2020)

Faculty Advisor; Cyclone Student Section of ASSP (1997 - 2019)
Co-Advisor (2005 - 2019)

ABE Faculty Senator (2006 - 2010; 2013 - 2019)

International Programs Committee (2009 - 2010)

ABE Delegation to Taiwan to establish an ABE Alumni Chapter (2008)

Social Committee (2004 - 2008)
Vice Chair (2004 - 2008)

Technology Learning Community (1999 - 2007)
Coordinator (1999 - 2005)

Scholarship Committee (1999 - 2007)
Chair (2002 - 2004)

Career Guidance, Recruitment, Retention & Advising Committee (2006 - 2007)

Space Committee (2004 - 2006)

Advanced Machine Engineering Focus Group (2003 - 2005)

Safety Director Search Committee (2005)

Centennial Distinguished Speakers (2005)

Department Program Assistant Search Committee (2005)

Database Committee (2005)

ITEC Curriculum Committee (1997 - 2004)
Graduate Committee (2002 - 2004)

Academic Advisor Search Committee (4 committees) (1999 - 2004)

IEDT Faculty Senator (2001 - 2004)

Promotion and Tenure Committee (2003 - 2004)

IEDT/ABE Merger Committee (2003 - 2004)

Adhoc Merger Committee (2003)

Personnel Committee (2003)

Strategic Planning Learning Group (2002)
Computer Fee Committee (1997 - 2002)
Chair (2001)

College

College of Agricultural and Life Sciences Faculty Senate Caucus (2006 - 2010; 2013 - 2019; 2020 - present)
Chair (2015 - 2019)
College of Agricultural and Life Sciences University Professor Committee (2019 -2020)
College of Agricultural and Life Sciences Graduate Education Advisory Committee (2014 - 2019)
College of Agricultural and Life Sciences University Professor Committee (2018 - 2019)
College of Agricultural and Life Sciences Promotion and Tenure Committee (2015 - 2018)
Chair (2017 - 2018)
Vice Chair (2016 - 2017)
College of Agricultural and Life Sciences Morrill Professor Committee (2017 - 2018)
College of Agricultural and Life Sciences Morrill Professor Committee (2016 - 2017)
College of Agricultural and Life Sciences University Professor Committee (2015 - 2016)
College of Agricultural and Life Sciences University Professor Committee (2014 - 2015)
College of Engineering Coordinator of Faculty Mentoring Activities (2012 - 2014)
College of Agricultural and Life Sciences Professional Development Committee (2010 - 2014)
Chair (2013 - 2014)
Department of Agricultural and Biosystems Engineering Chair Search Committee (2010 - 2011)
College of Engineering Task Force on Student Fees (2010)
Engineering Minor Committee (2005)
College of Education Academic Standards and Admissions Committee (1998 - 2004)
College of Education Honors Program (2003 - 2004)
College of Education Awards Committee (2003)
College of Education Computer Advisory Committee (2001)
Department of Industrial Education and Technology Chair Search Committee (1997 - 1998)

University

ISU Strategic Plan (2021- present)
Knowledge and Discovery Working Group (2021 - present)
WorkCyte Change Liaison Network (2021 - present)
ISU Faculty Handbook Editor Review Committee (2021 - present)
Graduate Council (2021 - present)
Policy Library Advisory Committee (PLAC) (2020 - present)

NCERA-197 Agricultural Safety and Health Research and Extension Committee (2015 - present)

Iowa State University Inclusive Action Commission (2017 - present)

Iowa State University Foundation Gift Acceptance Committee (2013 - present)

Faculty Senate (2001 - 2004; 2006 - 2019; 2020 - present)
Past President (2012 - 2013)
President (2011 - 2012)
President Elect (2010 - 2011)

Faculty Senate Executive Board (2006 - 2019; 2020 - present)

Faculty Senate Governance Council (2001 - 2002; 2010 - 2013; 2020 - present)
Chair (2020 - present)

Faculty Senate Committee on Honorary Degrees (2002 - 2008; 2019 - present)
Chair (2019 - present)

Learning Community Curriculum and Faculty Development Committee (2002 - 2003; 2004 - 2014; 2020 - present)
Chair (2020-2021)
Co-Chair (2012 - 2014)

ISU Athletics Council (2014 - 2021)
Chair (2015 - 2021)
Chair, Student-Athlete Experience Committee (2014 - 2015)

ISU Presidential Search Committee (2017)

Student Affairs Advisory Board (2016 - 2017)

ISU Strategic Planning Steering Committee, Chair (2015 - 2017)

ISU TIER Academic Affairs Coordinator (2015 - 2017)

Interdisciplinary Graduate Studies Program Administration (2006 -2016)
International Development Studies Director (2006 - 2016)

Promotion and Tenure Document Task Force (2004 - 2015)
Chair (2005 - 2015)

Faculty Senate Resource Policies and Allocation Council (2010 - 2015)
Chair (2013 - 2015)

Faculty Senate Recognition and Development Committee (2013 - 2014)

Iowa Alliances for Graduate Education and the Professoriate (AGEP) Faculty Council (2006 - 2014)

All-University Judicial Panel (2010 - 2013)

Faculty Senate Committee on Appeals (2002 - 2011; 2012 - 2013)
Chair (2006 - 2010); Vice-Chair (2012 - 2013)

Morrill Professorship Review Committee (2013)

University Learning Ecosystems Review Process Planning Committee (2012 - 2013)

Faculty Senate RPA Student Affairs Committee (2009 - 2013)

University Budget Advisory Committee (2010 - 2012)

ISU Senior Vice President and Provost Search Committee (2012)

ISU Presidential Search Committee (2011)
Teaching Academy Task Force (2008 - 2011)
University Work-Life Advisory Committee (2008 - 2011)
Chair of Committee on Committees (2010 - 2011)
Faculty Senate Judiciary and Appeals Council (2002 - 2004; 2006 - 2010)
 Chair (2006 - 2010)
Strategic Planning Steering Committee (2009 - 2010)
Strategic Planning Writing Committee (2010 - 2010)
University Committee on Disabilities (2006 - 2009)
2008 Learning Community Institute Planning Committee (2007 - 2008)
2007 Learning Community Institute Planning Committee (2006 - 2007)
2006 Learning Community Institute Planning Committee (2005 - 2006)
Preparing Future Faculty Program Mentor (2001 - 2002; 2004 - 2005)
2005 Learning Community Institute Planning Committee (2004 - 2005)
Advisory Board for the Center for Teaching Excellence (2002 - 2004)
 Vice-Chair (2003 - 2004)
University Teaching Awards Selection Committee (2004)
2004 Learning Community Institute Planning Committee (2003 - 2004)
Transportation Advisory Committee (2000 - 2003)
2003 Learning Community Institute Planning Committee (2002 - 2003)
2002 Learning Community Institute Planning Committee (2001 - 2002)
2001 Learning Community Institute Planning Committee (2000 - 2001)
Iowa State University Safety Committee (1997 - 2000)

Civic Leadership Experience

The Arc of Story County (2014 - present)

Board of Directors (2014 - 2021)
 Treasurer (2018 - 2021)