

STEVEN ANDREW FREEMAN

Campus Address:

104 Industrial Education II 3024 Morrill Hall
Iowa State University Iowa State University
Ames, IA 50011-3130 Ames, IA 50011-2170
Phone: (515) 294-9541 Phone: (515) 294-0382
Fax: (515) 294-1123 Fax: (515) 294-1860
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)

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

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

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)
American Society for Engineering Education (ASEE) (1992 - present)
International Society for Agricultural Safety and Health (ISASH) (1993 - present)
American Society of Safety Engineers (ASSE) (1995 - present)
Iowa Farm Safety Council (1997 - present)
Association of Technology, Management, and Applied Engineering (ATMAE) (1998 - present)
International Society for the Scholarship of Teaching and Learning (ISSOTL) (2005 - present)
Professional and Organizational Development Network (POD) (2004 - present)
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

SENCER Leadership Fellow (2008-2010), National Center for Science and Civic Engagement.
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.
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=87)

Refereed Articles (n=33)

1. 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.
2. 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.
3. 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.
4. 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.
5. **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://nait.org/jit/Articles/freeman122408.pdf>.
6. 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.
7. **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.
8. 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.
9. 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.

10. 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.
11. 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.
12. 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://nait.org/jit/Articles/hoffa092006.pdf>.
13. **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.
14. 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.
15. 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.
16. **Freeman, S.A.** and D.W. Field. 2004. Student perceptions of Web-based supplemental instruction. *Journal of Technology Studies* 30(4):25-31.
17. **Freeman, S.A.** and M.J. Dyrenfurth. 2003. Using peer assessments in team activities. *Journal of Industrial Technology* 20(1), <http://www.nait.org/jit/Articles/freeman102903.pdf>.
18. **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.
19. **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.
20. **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.
21. **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.nait.org/jit/Articles/freeman082200.pdf>.
22. 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.
23. **Freeman, S.A.** 1999. Potential impact of a ROPS retrofit policy in Central Iowa. *Journal of Agricultural Safety and Health* 5(1): 11-18.
24. **Freeman, S.A.** and D.W. Field. 1999. Benefits of a cross-functional safety curriculum. *Journal of Industrial Technology* 15(4), <http://www.nait.org/jit/Articles/free0899.pdf>.

25. **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.
26. **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.
27. **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.
28. **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.
29. **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.
30. **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.
31. **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.
32. **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.
33. **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=10)

1. **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.
2. **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.
3. Field, D.W. and **S.A. Freeman**, eds. 1999. *Conversion 2000: Y2K*. Iowa State University: Ames, IA and Manufacturing Extension Partnership: Washington D.C.
4. **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.
5. 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.).
6. **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.
7. **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.

8. **Freeman, S.A.**, E.J. Sheldon, and W.E. Field. 1994. *Farm & Ranch Safety Management Instructor's Guide*. Moline, IL: Deere & Company Service Publications.
9. Sheldon, E.J., **S.A. Freeman** and W.E. Field. 1994. *Farm & Ranch Safety Management Student Guide*. Moline, IL: Deere & Company Service Publications.
10. 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=18)

1. 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.
2. 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.
3. 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.
4. 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.
5. **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.
6. 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.
7. **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.
8. 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.
9. **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.
10. **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.

11. 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.
12. **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.
13. **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.
14. **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.
15. **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.
16. **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.
17. **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.
18. **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=140)

Invited National and International Presentations (n=31)

1. **Freeman, S.A.** 2009. Turning learning community activities into the scholarship of teaching and learning. 11th Annual Learning Communities Institute. Ames, IA, 11 May.
2. **Freeman, S.A.** 2008. Scholarship of teaching and learning. Presented for Nizhyn State University, Nizhyn, Ukraine, 25 September.
3. **Freeman, S.A.** 2008. Classroom assessment techniques to assess student learning. Presented for Nizhyn State University, Nizhyn, Ukraine, 24 September.
4. **Freeman, S.A.** 2008. Learner-centered teaching. Presented for Nizhyn State University, Nizhyn, Ukraine, 23 September.
5. **Freeman, S.A.** 2008. Scholarship of teaching and learning. Presented for the Punjab Agricultural University, Ludhiana, India, 3 June.
6. **Freeman, S.A.** 2008. Engaging students using classroom assessment techniques. Presented for the Punjab Agricultural University, Ludhiana, India, 3 June.
7. **Freeman, S.A.** 2008. Learner-centered teaching. Presented for the Punjab Agricultural University, Ludhiana, India, 3 June.
8. **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.
9. **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.
10. **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.
11. **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.
12. **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.

13. **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.
14. **Freeman, S.A.** 2006. An investigation of three physical parameters of PTO entanglements. 21st Annual Agricultural Machinery Conference. Cedar Rapids, IA, 2-4 May.
15. **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.
16. **Freeman, S.A.** 2005. An investigation of three physical parameters of PTO entanglements. 34th Annual Governor's Safety Conference. Des Moines, IA, 10 November.
17. **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.
18. **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.
19. **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.
20. **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.
21. 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.
22. **Freeman, S.A.** 2003. Quantifying farm stressors. 32nd Governor's Safety Conference. Des Moines, IA, 6 November.
23. **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.
24. **Freeman, S.A.** and K. Cones. 2002. Mentoring the academic (lead discussion). 2002 Wakonse Conference on College Teaching. Shelby, MI, 23-28 May.
25. 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.
26. **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.

27. **Freeman, S.A.** 2000. Potential impact of a ROPS retrofit policy in Central Iowa. 29th Governor's Safety Conference. Des Moines, IA, 3 November.
28. **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.
29. **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.
30. **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.
31. **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=88)

1. **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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. **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.
9. **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.

10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. **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.
19. **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.
20. **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.
21. Sgro, S. and **S. A. Freeman**. 2008. Teaching critical thinking using understanding by design. 2008 ASEE Annual Conference & Exposition. Pittsburgh, PA, 22 - 25 June.
22. 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.

23. **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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. **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.
30. **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.
31. **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.
32. 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.
33. 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.
34. 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.
35. 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.

36. 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.
37. 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.
38. 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.
39. 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.
40. **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.
41. 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.
42. **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.
43. **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.
44. 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.
45. 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.
46. **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.
47. **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.
48. 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.

49. **Freeman, S.A.** 2002. Application of peer assessments in base groups. 22nd Annual Lilly Conference on College Teaching. Oxford, OH, 21 - 24 November.
50. **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.
51. **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.
52. 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.
53. **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.
54. 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.
55. **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
56. **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.
57. 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.
58. **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.
59. **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.
60. 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.
61. **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
62. **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

63. 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
64. **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.
65. **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.
66. **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.
67. **Freeman, S.A.** 1996. Farm safety efforts at Purdue University. National Pork Producers Farm Safety Workshop, Chicago, IL, 30 December.
68. **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.
69. **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.
70. **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.
71. **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.
72. **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.
73. 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.
74. **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.
75. **Freeman, S.A.** 1994. A case study in knowledge system acceptance. 5th International Conference on Computers in Agriculture. Orlando, FL, 5 - 9 February.
76. **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.
77. 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.
78. **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.

79. **Freeman, S.A.** 1992. Using knowledge systems to select rural assistive technology. National AgrAbility Training Workshop, Indianapolis, IN, 7-10 December.
80. **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.
81. **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.
82. **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.
83. **Freeman, S.A.** 1991. An intelligent rural assistive technology database. 1991 American Society of Agricultural Engineers International Winter Meeting, Chicago, IL, 17-20 December.
84. **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.
85. **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.
86. **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.
87. **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.
88. **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=33)

1. *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.
2. *CELT/LC Scholarship of Teaching and Learning Institute*. 2010. Role: coordinator, discussion leader, and presenter for a two day workshop.
3. *Teaching and Learning Circle: Faculty Incivility*. 2010. Role: coordinator and discussion leader.
4. *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.
5. *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.
6. *What is the Scholarship of Teaching and Learning?*. 2009. Role: workshop presenter and discussion leader.
7. *Teaching and Learning Circle: Big Questions, Worthy Dreams*. 2009. Role: co-coordinator and discussion leader.
8. *What is the Scholarship of Teaching and Learning?*. 2008. Role: workshop presenter and discussion leader.
9. *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.
10. *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.
11. *Motivating and Engaging Engineering Students*. 2008. Role: workshop co-presenter (with Susan Yager) for the Department of Electrical and Computer Engineering.
12. *Classroom Assessment Techniques for Measuring Course Related Knowledge and Skills*. 2008. Role: workshop presenter and discussion leader for the Department of Horticulture.
13. *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.

14. *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.
15. *Miller Scholarship of Teaching and Learning Institute*. 2007. Role: coordinator, discussion leader, and co-presenter (with Kevin Saunders) for a two day workshop.
16. *Teaching and Learning Circle: What the Best College Teachers Do*. 2007. Role: coordinator and discussion leader.
17. *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.
18. *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.
19. *Collecting Classroom Data for Scholarship of Teaching and Learning*. 2006. Role: workshop co-presenter with Kevin Saunders.
20. *Scholarship of Teaching and Learning in Communication*. 2006. Role: presenter as part of the Advanced Communication 2006 Workshop sponsored by the English Department.
21. *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.
22. *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.
23. *Teaching and Learning Circle: What the Best College Teachers Do*. 2005. Role: coordinator and discussion leader.
24. *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.
25. *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.
26. *Teaching and Learning Circle: What the Best College Teachers Do*. 2005. Role: co-coordinator and discussion leader.
27. *Teaching and Learning Circle: Balancing Acts*. 2004. Role: coordinator and discussion leader.
28. *Scholarship of Teaching and Learning*. 2004. Role: presenter. Sponsored by the Iowa State University Preparing Future Faculty Program.
29. *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.

30. *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.
31. *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.
32. *Peer Review of Teaching*. 2004. Role: workshop coordinator and discussion leader.
33. *Teaching and Learning Circle: Tuesday's with Morrie*. 2003. Role: coordinator and discussion leader.

Grants and Projects (n=38) (Total = \$3,313,408)

Principal or Co-Principal Investigator (\$2,496,105)

1. **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)
2. **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.
3. **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)
4. **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)
5. **Principal Investigator** of a \$5,000 gift to support PTO entanglement modeling and advancement of agricultural engineering: 2008. Funded by the GNK Foundation.
6. **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.
7. **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)
8. **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)
9. **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)
 10. **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)
 11. **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 immersion 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)
 12. **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)
 13. **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.
 14. **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)
 15. **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)
 16. **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. Yearn) [Note: Renewal Application]

17. **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)
18. **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. Yearn) [Note: Renewal Application]
19. **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 Student Affairs, Department of Industrial Education and Technology, and College of Education, Iowa State University.
20. **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)
21. **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. Yearn) [Note: Renewal Application]
22. **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
23. **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)

24. **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. Years)
25. **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.
26. **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. Years) [Note: Renewal Application]
27. **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.
28. **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. Years) [Note: Renewal Application]
29. **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.
30. **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.

31. **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.
32. **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.
33. **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)

34. **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)
35. **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)
36. **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)
37. **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)
38. **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 engi-

neering 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. Years) [Note: Renewal Application]

Graduate Committees (n=89)

Major Professor (n=30)

1. Batemon, Brice. Current Ph.D. student, Industrial Education and Technology, Iowa State University.
2. Carroll, Melody. Current Ph.D. student, Industrial Education and Technology, Iowa State University.
3. Ibrahim, Norhayati. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.
4. Judge, Jon L.P. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.
5. Laingen, Mark A. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.
6. Nagel, Stephen G. Current Ph.D. student, Industrial Education and Technology, Iowa State University.
7. Schaufenbuel, Jason. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.
8. Withers, James H. Current Ph.D. student, Industrial Education and Technology, Iowa State University.
9. Braymen, Nathan T. Current M.S. student, Industrial and Agricultural Technology, Iowa State University.
10. DeBower, Anthony K. Current M.S. student, Industrial and Agricultural Technology, Iowa State University.
11. Madsen, Jocelyn D. Current M.S. student, Industrial and Agricultural Technology, Iowa State University.
12. Mujeeb, Ahad B. Current M.S. student, Industrial and Agricultural Technology, Iowa State University.
13. 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.
14. 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.
15. 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.

16. 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.
17. Jiang, Qi. 2006. *Statistical analysis of safety and health issues*. **Ph.D.** Statistics and Industrial Education and Technology, Iowa State University
18. 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.
19. Hoffa, David W. 2006. *Synopsis laboratory reports: Effects on student learning and curricular benefits*. **Ph.D.** Industrial Education and Technology, Iowa State University.
20. Vlad, Maria. 2005. **M.S.** Industrial Education and Technology, Iowa State University.
21. Ancar, LeQuetia N. 2004. *Investigating personal and professional connections through the Technology Learning Community*. **M.S.** Industrial Education and Technology, Iowa State University.
22. Peters, James G. 2004. **M.S.** Interdisciplinary Graduate Studies, Iowa State University.
23. Judge, Jon L. P. 2004. *An investigation of the physical parameters of PTO entanglements*. **M.S.** Industrial Education and Technology, Iowa State University.
24. 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.
25. Kaune, Jeffery S. 2004. **M.S.** Industrial Education and Technology, Iowa State University.
26. 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.
27. Hite, Daniel A. 2003. **M.S.** Industrial Education and Technology, Iowa State University.
28. 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.
29. 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.
30. Shelton, Patrick A. 1998. **M.S.** Industrial Education and Technology, Iowa State University.

Committee Membership (n=59)

1. Baughman, Jacquelyn A. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.
2. Shawn Bayouth. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.
3. Devlin, Steven L. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University.

4. Laugerman, Marcia R. Current Ph.D. student, Industrial and Agricultural Technology, Iowa State University
5. Mosher, Gretchen. Current Ph.D. student, Measurement and analysis of the relationship between employee perceptions and safety and quality decision-making in the country grain elevator. Industrial and Agricultural Technology, Iowa State University.
6. Ridgely, Lance W. Current Ph.D. student, Educational Leadership and Policy Studies, Iowa State University.
7. Thomas, Phil. Current Ph.D. student, Educational Leadership and Policy Studies, Iowa State University.
8. Twait, Christine L. Current Ph.D. student, Educational Leadership and Policy Studies, Iowa State University.
9. Chen, Kuen-Min (Alfie). Current M.S. student, Industrial and Agricultural Technology, Iowa State University.
10. Demmer, Brian J. Current M.S. student, Industrial and Agricultural Technology, Iowa State University.
11. Weldon, Linda C. Current M.S. student, Industrial and Agricultural Technology, Iowa State University.
12. 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.
13. Kepner, Gregory G. 2010. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
14. Zuo, Jianying (Angela). 2010. *Analysis of window-observation recurrence data*. **Ph.D.** Statistics, Iowa State University.
15. Shady, Brett. 2009. *The Development of a RFID based leanness monitoring system*. **M.S.** Industrial and Agricultural Technology, Iowa State University.
16. 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.
17. 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.
18. Mills, Troy R. 2007. *The effects of safety climate on safety decision making*. **M.S.** Industrial and Agricultural Technology, Iowa State University.
19. 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.
20. Voraphani, Natthapongs. 2007 *Color vision screening using eye movements*. **Ph.D.** Industrial and Agricultural Technology, Iowa State University.

21. 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.
22. 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.
23. Klein, Karly L. 2007. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
24. Harmon, Gregory D. 2007. **M.S.** Interdisciplinary Graduate Studies, Iowa State University.
25. Batemon, Brice. 2006. **M.S.** Interdisciplinary Graduate Studies, Iowa State University.
26. Maxson, Connie G. 2006. *Schoolboard member and superintendent dispositions relating to student achievement*. **Ph.D.** Educational Leadership and Policy Studies, Iowa State University.
27. Ocken, Scott J. 2006. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
28. Li, Wenqing. 2006. **M.S.** Statistics, Iowa State University.
29. 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.
30. 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.
31. Lee, Sooyen (Samson). 2006. *In-process tool condition monitoring systems in CNC turning operations*. **Ph.D.** Industrial Education and Technology, Iowa State University.
32. Meyer, Daniel J. 2006. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
33. Johnson, Brian L. 2006. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
34. Tiala, Sylvia T. 2005. *Virtual reality in the k-12 classroom*. **Ph.D.** Industrial Education and Technology, Iowa State University.
35. Herold, Therese. 2005. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
36. Zhang, Zhe (Julie). 2005. *In-process pokayoke development in multiple automatic manufacturing processes*. **Ph.D.** Industrial Education and Technology, Iowa State University.
37. 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.
38. Eljaam, Bassam A. 2005. *Customer satisfaction with cellular network performance: Issues and analysis*. **Ph.D.** Industrial Education and Technology, Iowa State University.

39. 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.
40. Kennedy, Sara K. 2004. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
41. Chrusciel, Donald. 2004. *Considerations for dealing with significant organizational change*. **Ph.D.** Industrial Education and Technology, Iowa State University.
42. Wunn, Lisa J. 2004. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
43. Larson, David J. 2004. **M.S.** Industrial Education and Technology, Iowa State University.
44. Earney, Nancy J. 2004. **MPA.** Political Science, Iowa State University.
45. Glackin, Douglas A. 2003. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
46. Steffen, John J. 2003. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
47. Kiger, Jill L. 2003. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
48. Jeschke, Korey K. 2003. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
49. Neel, Scott G. 2003. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
50. 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.
51. 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.
52. 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.
53. Kerper, Marsha A. 2002. **M.Ed.** Educational Leadership and Policy Studies, Iowa State University.
54. Rogers, Jennifer L. 2001. *Gait changes with unilateral and bilateral upper extremity loading*. **M.S.** Health and Human Performance, Iowa State University.
55. Ehmer, Judith M. 2000. *Construction site safety from a project management perspective*. **M.S.** Construction Engineering & Management, Iowa State University.
56. Colón, Jr., Israel. 1998. *The study of standards in vocational-technical teacher preparation*. **Ph.D.** Industrial Education and Technology, Iowa State University.
57. 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.

58. Pollard, Thomas L. 1998. **M.Ag.** Professional Agriculture, Iowa State University.
59. 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. Keren, Nir. Faculty Mentoring Program. 2005 - present. Office of the Provost, Iowa State University.
2. Bayouth, Shawn. Preparing Future Faculty Program, 2008 - present. Ph.D. Department of Agricultural and Biosystems Engineering, Iowa State University.
3. Laux, Chad M. Preparing Future Faculty Program, 2005 - 2006. Ph.D. Department of Agricultural and Biosystems Engineering, Iowa State University.
4. Teaching mentor for departmental graduate teaching assistants and temporary instructors. 2004-2005. Department of Agricultural and Biosystems Engineering, Iowa State University.
5. Hoffa, David W. Preparing Future Faculty Program, 2004. Ph.D. Department of Agricultural and Biosystems Engineering, Iowa State University.
6. Siemek, Abby A. Freshman Honors Program, Spring 2004, Department of Industrial and Manufacturing Systems Engineering, Iowa State University.
7. Franco, Robert. Preparing Future Faculty Program, 2001 - 2002. MFA. Department of Interior Design, Iowa State University.
8. 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 (excluding independent study and research credits)

Semester	Course number and Title	Credit	Enrollment
Fall 2010	TSM 270 <i>Principles of Injury Prevention</i>	3	171
Spring 2010	TSM 272 <i>Introduction to Occupational Safety</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
Spring 2008	TSM 370 <i>Occupational Safety</i>	3	40
Fall 2007	TSM 272 <i>Introduction to Occupational Safety</i>	2	22

Semester	Course number and Title	Credit	Enrollment
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	37
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
	ITEC 575 <i>Safety and Public Health Issues in Modern Society</i>	2	19
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

Semester	Course number and Title	Credit	Enrollment
	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

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

Journal of Industrial Technology

Chair, Journal of Industrial Technology Board (2009 - present)

Chief Editor (2008 - 2009)

Assistant Editor (2007 - 2008)

National Safety Council (NSC)

Agricultural Division (1997 - 2000)

Reviewer Experience

Grants and Projects

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

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

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

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

Competitive Supplement for NIOSH Centers for Agricultural Disease and Injury Research, Education, and Prevention (PA 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

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

Journal of Industrial Technology; National Association of Industrial Technology

Spanish Journal of Agricultural Research; Spanish National Institute for Agricultural and Food Research and Technology

Conference Proceedings

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

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)

Iowa Farm Safety Council (1997 - present)

Board of Directors (1998 - present)

President (2001 - 2003)

Vice President (1999 - 2001)

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

Co-Chair; Professional Development Committee (2008 - present)

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 Engineers (ASSE) (1995 - present)

Student Section Subcommittee (2009 - present)

Faculty Advisor; Cyclone Student Section (1997 - present)

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)

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

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

National Secretary/Treasurer (1994 - 1999)

Institutional Leadership/Service Experience

Department

Safety Focus Group (2005 - Present)

Agricultural and Biosystems Engineering Graduate Student Organization

Faculty Advisory (2005 - 2010)

Co-Advisory (2010 - present)

Technology Curriculum Committee (2004 - present)

Vice Chair (2004 - 2006)

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

Faculty Search Committees (10 positions) (2000 - present)

Coordinator of the Industrial Technology Occupational Safety option (1997 - present)
Faculty Advisor; Cyclone Student Section of ASSE (1997 - present)
 Co-Advisor (2005 - present)
Awards and Honors Committee, chair (2009 - 2010)
International Programs Committee (2009 - 2010)
Graduate Programs Committee (2004 - 2010)
Director of Graduate Education (2005 -2010)
ABE Faculty Senator (2006 - 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)
Promotion, Tenure, and Review Committee (2005 - 2006)
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)
Promotion, Tenure, and Review Committee (2004 - 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

Department of Agricultural and Biosystems Engineering Chair Search Committee
(2010 - present)

College of Agricultural and Life Sciences Professional Development Committee
(2010 - present)
College of Agricultural and Life Sciences Faculty Senate Caucus (2006 - 2010)
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

Faculty Senate (2001 - 2004; 2006 - present)
President Elect (2010 - present)
Faculty Senate Executive Board (2006 - present)
University Budget Advisory Committee (2010 - present)
Faculty Senate Resource Policies and Allocation Council (2010 - present)
Faculty Senate Governance Council (2010 - present)
Chair of Committee on Committees (2010 - present)
Iowa Alliances for Graduate Education and the Professoriate (AGEP) Faculty Council
(2006 - present)
Interdisciplinary Graduate Studies Program Administration (2006 - present)
International Development Studies Director (2006 - present)
Faculty Senate RPA Student Affairs Committee (2009 - present)
Teaching Academy Task Force (2008 - present)
University Work-Life Advisory Committee (2008 - present)
Promotion and Tenure Document Task Force (2004 - present)
Chair (2005 - present)
Faculty Senate Committee on Appeals (2002 - present)
Chair (2006 - 2010)
Learning Community Curriculum Development and Enhancement Subcommittee (2002 -
2003; 2004 - present)
Judiciary and Appeals Council of the Faculty Senate (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)
Faculty Senate Committee on Honorary Degrees (2002 - 2008)
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)
Governance Council of the Faculty Senate (2001 - 2002)
2002 Learning Community Institute Planning Committee (2001 - 2002)
2001 Learning Community Institute Planning Committee (2000 - 2001)
Iowa State University Safety Committee (1997 - 2000)