

## Steven A. Freeman

Assistant Director and Associate Professor

Certified Safety Professional  
Certified Senior Industrial Technologist

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Education  
Ph.D. Agricultural Engineering, 1993  
Purdue University

M.S. Agricultural Engineering, 1990  
Texas A&M University

B.S. Agricultural Engineering, 1988  
Colorado State University

Honors and Awards  
Center for Excellence in Learning and Teaching  
Miller Faculty Fellow, 2005-2006

National Institute for Farm Safety President's  
Award, 2004

Wakonse Foundation on College Teaching/Center  
for Teaching Excellence Wakonse Fellow, 2002

Center for Teaching Excellence Miller Faculty  
Fellow, 2001-2002

College of Education Outstanding Early  
Achievement in Outreach Commendation, 2001

Recent Publications  
Hoffa, D.W. and S.A. Freeman. Reducing student  
writing time and instructor grading time of  
laboratory reports. *Journal of Industrial  
Technology* 22(3): in press.

Hoffa, D.W. and S.A. Freeman. The impact of  
laboratory report format on student learning.  
*International Journal of Engineering Education*:  
in press.

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.

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.

Freeman, S.A. and D.W. Field. 2004. Student  
perceptions of Web-based supplemental instruc-  
tion. *Journal of Technology Studies* 30(4):25-31.

Freeman, S.A. and M.J. Dyrenfurth. 2003. Using  
peer assessments in team activities. *Journal of  
Industrial Technology* 20(1), [www.nait.org/jit/  
Articles/freeman102903.pdf](http://www.nait.org/jit/Articles/freeman102903.pdf).

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.

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.



### Teaching

Dr. Freeman Coordinates the occupational safety option within the industrial technology curriculum. His teaching responsibilities are in the occupational safety curriculum. His primary course load includes TSM 270 Principles of Injury Prevention, TSM 272 Introduction to Occupational Safety, TSM 370 Occupational Safety, and TSM 575 Safety and Public Health Issues in Modern Society.

### Research

Dr. Freeman's scholarship and discovery activities include broad thrusts, (1) safety research impacting rural communities, and (2) the development of students and the learning that occurs in the classroom and beyond.

Dr. Freeman's safety research agenda is to improve the safety and welfare of rural populations and workers by understanding the factors (environmental, technological, and human) that impact their safety and welfare in order to develop appropriate intervention strategies. This encompasses the areas of occupational safety, rural safety, and safety education/training. His primary interest is in applied research and technology/information transfer activities that impact the safety and health of agriculture and rural communities.

Dr. Freeman's scholarship of teaching and learning agenda is to improve the process of learning and the learning environment. This encompasses learning communities, curriculum development, and classroom assessment. He also has a specific interest in computer applications related to safety education and the dissemination of safety information.

### Other Professional Interests

Dr. Freeman is Assistant Director for the Center for Excellence in Learning and Teaching. His responsibilities in the Center include scholarship of teaching and learning, Miller Faculty Fellowships, teaching partner program, the role of teaching and the scholarship of teaching as part of the promotion and tenure and representing Iowa State on national initiatives surrounding the scholarship of teaching and learning at research universities. Dr. Freeman is also involved in the leadership of the faculty senate where he is a member of the senate executive board and chairs the judiciary and appeals council and faculty senate committee on appeals. Dr. Freeman has also continued his involvement with the Technology Learning Community which he founded in 1998.