

Charles V. Schwab

Professor

Extension Safety Specialist

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Education

Ph.D. Agricultural Engineering, 1989
University of Kentucky

M.S. Agricultural Engineering, 1982
University of Kentucky

B.S. Agricultural Engineering, 1979
University of Kentucky

Honors and Awards

Iowa State University Award for Outstanding Achievement, 2010 NAMIC Engineering Safety Award, 2009
Chair Faculty Citation Award, Agricultural and Biosystems Engineering, 2008
I-CASH Agricultural Safety Hall of Fame, 2004
Meritorious Service Award, ISU Extension, 2002
Superior Engineering Extension Award, College of Engineering, 2002
Blue Ribbon for ASAE Educational Aids Competition (14 total), 2010, 2005, 2002, 2001, 1996, 1995, 1994, 1993 1992, and 1991
Agricultural Communicators in Education Awards (4 total), 2003, 2002, 2001, and 1999
Young Engineer of the Year, IA Section of ASAE 1996-97
Iowa State University Extension Achievement Award for the Safe Farm Program, 1993

Recent Publications

Gillette, J. C., Stevermer, C. A., Miller, R. H., Meardon, S. A. and Schwab, C. V. 2010. The effects of age and type of carrying task on lower extremity kinematics. *Ergonomics* 53: 3, 355 — 364.
Coffman, C. W., J. F. Stone, A. C. Slocum, A. J. Landers, C. V. Schwab, L. G. Olsen, and S. Lee. 2009. Use of Engineering Controls and Personal Protective Equipment by Certified Pesticide Applicators. *ASAE Journal Agricultural Safety and Health* 15(4):311-326.
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):8 pages.
J. C. Gillette, C. A. Stevermer, S. A. Meardon, T.R. Derrick, and C. V. Schwab. 2009. Upper Extremity and Lower Back Torques During Carrying Tasks in Farm Children. *Journal of Applied Biomechanics*. 25, 149-155.
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):8 pages.
Freeman, S.A., C.V. Schwab, Q. Jiang. 2008. Quantifying stressors among Iowa farmers. *ASAE Journal Agricultural Safety and Health* 14(4):431-439.
Freeman, S. A., C. V. Schwab, and J. L. P. Judge. 2006. An Investigation of Three Physical Parameters of PTO Entanglements. *ASAE Journal Agricultural Safety and Health* 13(3):191-197.



Teaching

Dr. Schwab teaches TSM 115 Solving Technology Problems. He also mentors future agricultural leaders as an advisor of the Epsilon Pi Tau and serves as Curriculum Chair for the Technology degree programs.

Extension

As the extension safety specialist for the state of Iowa, Dr. Schwab provides leadership for Safe Farm, Iowa State University (ISU) Extension's program helping to make Iowa farms a safer place to work and live. The activities of the ISU Extension Safe Farm program are directed toward the following four major objectives: (1) Increasing farm safety awareness to encourage farmers to adopt safe farming practices, (2) Reducing the number of farm-related injuries and fatalities, (3) Enhancing the efficiency of ISU Extension to provide farm safety programming, and (4) Providing leadership and expertise for the development of farm safety programs. Dr. Schwab also cooperates with the Progressive Agriculture Foundation farm safety day® program providing educational activities to over 60,000 youth and is the ISU Extension's lead coordinator for emergency preparedness.

Research

Dr. Schwab conducts research projects concerning agricultural safety and health issues. His research includes efforts in the area of granular mechanics safety, injury and fatality identification and analysis, and safety education and intervention methods. Current projects include reviewing the effectiveness of web-based delivery of tractor certification educational programming, paraprofessionals' perceptions of agricultural risks, and the magnitudes and characteristics of grain coefficient of friction on denim.

Other Professional Activities

Dr. Schwab serves on several multi-state and interdisciplinary teams, committees, boards, and organizations that promote injury prevention and foster emergency preparedness. He is active with the Extension Disaster Education Network, Iowa Strategic Highway Safety Management System, Iowa Ingestion Pathway Plan for nuclear power station radiological emergency response, International Honor Society Epsilon Pi Tau Board of Directors, and Iowa Farm Safety Council Board of Directors. He is also an active member of ASABE, ASEE, ASSE, ATMAE, ITEEA and NIFS.