

Karen A. Zunkel

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Education

Iowa State University	Industrial Engineering	B.S., 1983
University of Oklahoma	Industrial Engineering	M.S., 1989
Iowa State University	Educational Leadership and Policy Studies	Ph.D., 2002

Professional Experience

2004–present	Director, Undergraduate Student Support Services, Office of the Provost, Iowa State University
2002–present	Director, Program for Women in Science and Engineering, Iowa State University
1997–2002	Manager, Engineering Undergraduate Programs, Iowa State University
1991–1997	Instructor/Graduate Lecturer, College of Engineering, Iowa State University
1988–1991	Systems Consultant, AT&T, Des Moines, Iowa
1983–1988	Product Engineer, AT&T (Lucent) Technologies, Oklahoma City, Oklahoma

Professional Honors and Affiliations

Women in Engineering Program and Advocate Network, Board of Directors 2004-2007
American Society of Engineering Educators
Society of Women Engineers
Alpha Pi Mu
Tau Beta Pi
Phi Kappa Phi
Golden Key Honorary Member
ASEE North Midwest Section Meeting Best Paper Award 1996—*Not All Engineers Drive Trains:
Engineering Outreach for K-2 Grade Students*

Selected Publications/Presentations

Zunkel, K., 2006. Encouraging All Students in Manufacturing and Technology Fields, Invited Panelist at *Changing Faces/Facing Changes: The Future of Advanced Manufacturing in Iowa Conference, May 16, 2006.*

Zunkel, K. & Muthukrishnan, K., 2006 Encouraging and Supporting Students in Non-Traditional Careers; Invited Presentation at *Diversity Seminar for Community Colleges, Iowa Department of Education, April 27, 2006.*

Zunkel, K. 2004. Update from the Experts: Past Awardees Speak, panel presentation by Stephanie Blaisdell (WPI), Cinda-Sue Davis (Michigan), Letha Hammon (DuPont), Sue Rosser (Georgia Tech), and Karen Zunkel (Iowa State), *WEPAN Annual Conference*, June, Albuquerque, NM.

Zunkel, K. 2003. How to Capitalize on Where are Are, panel presentation by Karen Zunkel (Iowa State), Dana Newell (Arizona State), and Carla Purdy (Cincinnati), *WEPAN Annual Conference Proceedings*. June, Chicago, IL.

Zunkel, K. 2002. Relationships among learning community participation, student self-efficacy, confidence, outcome expectations, and commitment. Doctoral dissertation. Ames, IA: Iowa State University

Zunkel, K. 2000. Learning communities in engineering education literature. *ASEE North Midwest Section Meeting*. October, Minneapolis, Minnesota.

Zunkel, K. 2000. Impact of learning communities on undeclared engineering students. *ASEE North Midwest Section Meeting*. October, Minneapolis, Minnesota.

Zunkel, K., J. Cable, and S. Jones. 1996. Interactive distance education for engineering outreach. *Frontiers in Education Conference '96 Conference*. November, Salt Lake City.

Zunkel, K., and C. Moller-Wong. 1995. Not all engineers drive trains: Engineering outreach for K-2 grade students. *ASEE North Midwest Section Meeting*. October, St. Cloud, Minnesota.

Synergistic Activities

Connections with K-16: Member of Iowa Department of Education – Division of Community Colleges, Equity Leadership Team (one representative from each Iowa community colleges and state universities); Title II Review Committee for State of Iowa; PWSE currently partnering with Marshalltown Community College on developing a STEM related learning community at their institution; Board of Regents Admission Study Team member (investigating changing admission criteria for all state universities based on success/retention/graduation); previously coordinated orientation program for College of Engineering; Member of University Academic Advising Committee; involved in local K-12 community (former PTO president and past-president of the Ames Education Foundation).

Learning Community Background: PWSE has a ten year history of learning communities for women in STEM fields (this year serving over 180 students); PWSE recognized by Iowa State University Learning Communities in 2006 with an “Innovations Award”; Dissertation and presentations related to engineering learning communities for women and men.

Diversity Issues: Member of ISU Women’s Leadership Consortium and the University Committee on Women; Member of the Campus Climate Implementation Team; Task Force Member reviewing Dialogues on Diversity program; review special consideration requests for Provost on university U.S. Diversity and International Perspectives requirements; and established LEAD Program (multicultural engineering program) and served as first interim director of program.

Graduate and Postdoctoral Advisers

M.S.—Larry Leemis (William and Mary)

Ph.D.—Larry Ebbers (Iowa State University)

Graduate and Postdoctoral Scholars Advised

Not applicable

Collaborators/Co-Editors

Not applicable