

KURT WILLIAM STEUCK
DIRECTOR
INTELLIGENT LEARNING TECHNOLOGIES

EXPERIENCE

Apr 00 to present Command Technologies, Inc
Director, Intelligent Training Technologies

Primary responsibility is to manage the development of intelligent learning technologies for commercial purposes. Manage interdisciplinary team of computer programmers, research psychologists, and domain experts. Serve as the technical manager of contracts and a cooperative research and development agreement (CRDA) with the Air Force Research Laboratory.

Aug 1985 to Apr 2000 Air Force Research Laboratory
(formerly Armstrong Lab and Air Force Human Resources Lab)

Project Manager, Fundamental Skills Training Project: Led software design and development teams on intelligent tutoring systems in word problem solving, scientific inquiry skills, information technology tutor, and an internet-based version of a writing process tutor. Managed and participated in research design, data collection, and analysis of data evaluating the instructional effectiveness of three intelligent tutoring systems in field settings. Gave presentations to professional, academic, research, and practitioner audiences at local, state, and federal levels. Participated and managed in the signing of two cooperative research and development agreements (CRDAs) transferring intelligent learning technologies to the private sector. Managed an interdisciplinary team of computer programmers, domain experts, and research assistants in the development of the FST intelligent tutoring systems. Managed 16 short- and long-term research and development contracts.

Jan 1988 - May 1988 Trinity University
Lecturer in Psychology

Taught course in Human Learning and Cognition

Jan 1987 - May 1987 St Mary's University
Lecturer in Psychology

Taught course in Human Learning and Cognition

Aug 1983 - May 1985 Trinity University
Assistant Professor

Taught courses in Psychology: Human Learning, Cognition, Computer Statistical Packages, Child Development, and Introduction to Psychology

EDUCATION: 1983 Ph.D., Educational Psychology, University of Wisconsin-Madison
 1979 M.S., Educational Psychology, University of Wisconsin-Madison
 1977 B.S., Psychology, University of Wisconsin-Madison

SECURITY
CLEARANCE: Secret

Honors and Awards

Vice President's National Partnership for Reinventing Government Hammer Award, 1999

Armstrong Laboratory, Human Resources Directorate Customer Support Excellence Award for 1996

Federal Laboratory Consortium Award for Excellence in Technology Transfer for 1995.

The Alamo Federal Executive Board 1994 Quality Award

San Antonio Independent School District Champion of Education Award, Sep 1992

North East Teachers Association "Friend of Education" Award for 1991 Mac Arthur High School NEISD project award (May 1992)

Armstrong Laboratory Director's Award presented to Fundamental Skills Training Team 1991

Professional Affiliations

American Educational Research Association
 Advanced Technologies for Learning SIG
 Education in Science and Technology SIG

Association for the Advancement of Computers in Education (AACE)
 AI in Education Society

National Association for Research in Science Teaching

Papers and Publications

- Steuck, K.W., Rowley, K., & Kretschmer, M. (1999). Partnering to implement computer-based tutoring systems in secondary schools. *Journal of Interactive Instruction Development*, 12(1), 16-22.
- Meyer, T. N., Miller, T. M., Steuck, K., & Kretschmer, M. (1999, July). A multi-year large-scale field study of a learner controlled intelligent tutoring system. Proceedings of the 9th International Conference on Artificial Intelligence in Education, Le Mans, FR.
- Steuck, K.W., Rowley, K., & Kretschmer, M. (1999, July). Partnering to implement computer-based tutoring systems in secondary schools. Proceedings of the Society for Applied Learning Technology, Washington, DC.
- Meyer, T., Steuck, K., Miller, T., Pesthy, C., & Redmon, D. (1999, March). Lessons Learned from the Trenches: Implementing Technology in Public Schools. Proceedings of the Society for Information Technology and Teacher Education, 681 - 697, San Antonio, TX
- Meyer, T., Steuck, K., Miller, T., Pesthy, C., & Kretschmer, M.. (1999, March). Teaching Scientific Inquiry Skills with an Intelligent Tutoring System. Proceedings of the Mathematics/Science Education & Technology, 492 - 495, San Antonio, TX
- Rowe, A. L., Meyer, T., Miller, T., & Steuck, K. (1997, Sept). Assessing knowledge structures: Don't always call an expert. Proceedings of the Human Factors and Ergonomics Society's 41st Annual Meeting, 1997, 1203 - 1207, v2. Albuquerque, NM
- Steuck, K.W. (1995). Instruction in Scientific Inquiry Skills. In S. Helgeson, D. Kumar, & P.J. Smith (Eds.), Proceedings from the Working Conference on Applications of Technology in the Science Classroom (pp. 1 - 15). Columbus, Ohio: National Center for Science Teaching and Learning.
- Sperl, T.C., Ree, M.J., & Steuck, K.W. (1992). Armed Services Vocational Aptitude Battery and Air Force Officer Qualifying Test: Analysis of common measurement attributes. *Military Psychology*, 4(3), 175-188.
- Luckhardt-Redfield, C. & Steuck, K.W. (1991). The Future of Intelligent Tutoring Systems. In Burns, H., Parlett, J., Luckhardt-Redfield, C., (Eds.), Intelligent Tutoring Systems: Evolutions in Design. Hillsdale, NJ: Lawrence Erlbaum Associates.
- Sperl, T.C., Ree, M.J., & Steuck, K.W. (Oct, 1990). Air Force Officer Qualifying Test (AFOQT) and Armed Services Vocational Aptitude Battery (ASVAB): Analysis of common measurement attributes. AFHRL TR-90-37. Manpower and Personnel Division, Brooks AFB, TX.
- Steuck, K.W. & Fleming, J.L. (May, 1990). Intelligent tutoring systems: A taxonomy of evaluation issues. AFHRL TP-89-79. Training Systems Division, Brooks AFB, TX.
- Arth, T.O., Steuck, K.W., Sorrentino, C., & Burke, E. (May, 1990). Air Force Officer Qualifying Test (AFOQT): Predictors of undergraduate pilot training and undergraduate navigator training success. AFHRL TP 89-52. Manpower and Personnel Division, Brooks AFB TX.

- Steuck, K.W., Watson, T.W., & Skinner, J. (Nov, 1988). Air Force Officer Qualifying Test (AFOQT): Forms P pre-implementation analyses and equating. AFHRL TP 88-6. Manpower and Personnel Division, Brooks AFB TX.
- Sperl, T.C. & Steuck, K.W. (1988). The development of quick score composites for the Air Force Officer Qualifying Test (AFOQT). Psychology in the Department of Defense Eleventh Annual Symposium. USAFA-TR-88-1. United States Air Force Academy, Colorado Springs CO.
- Steuck, K.W. (1985). Educational psychology: A distinct discipline? [Review of Educational Psychology for Teachers (2nd ed.) and Educational Psychology: Principles in Practice]. Contemporary Psychology, 30(10), 816-817.
- Enright, R.D., Lapsley, D.K., Franklin, C.C., & Steuck, K.W. (1984). Longitudinal and cross-cultural validation of the belief discrepancy reasoning construct. Developmental Psychology, 20(1), 143-149.
- Steuck, K.W. (1984). Reflections of cognitive psychology. [Review of Fundamentals of Human Memory and Cognition (3rd. Ed)]. Contemporary Educational Review, 3(1), 321-323.
- Steuck, K.W. (1979). The effect of pictures, imagery, and a change of context on young children's oral prose learning. Working Paper No. 264, Madison: Wisconsin Research and Development Center for Individualized Schooling.

Presentations

- Steuck, K. (April, 2000). Intelligent learning technologies for adult basic education. Presentation at the Jobs Corps Alpha 2000 Conference, Washington, DC.
- Steuck, K. W. (2000, July). Intelligent learning technologies at the Wisconsin Advanced Distributed Learning Co-Laboratory. Presentation at the Joint Employment and Training Technology Conference, Albuquerque, NM.
- Steuck, K. W. (2000, July). Information Technology and Professional Development. Presentation at the Joint Employment and Training Technology Conference, Albuquerque, NM.
- Meyer, T. N., Steuck, K., Miller, T. M., & Kretschmer, M. (April, 2000). Multi-Year Large-Scale Field Studies of the Fundamental Skills Training Project's Intelligent Tutoring Systems. Paper presented at the Annual meeting of the American Educational Research Association, New Orleans, LA.
- Meyer, T. N., Miller, T. M., Steuck, K., & Kretschmer, M. (1999, July). A multi-year large-scale field study of a learner controlled intelligent tutoring system. Paper presented at the 9th International Conference on Artificial Intelligence in Education, Le Mans, FR.
- Steuck, K.W., Cockrell, P. & Miller, T. (1999, July). Implementation of an internet deliverable intelligent tutoring system. Presentation at the Joint Employment and Training Technology Conference, Washington, DC.
- Steuck, K. W. (1999, July). Implementing Intelligent Learning Technologies: Guidelines for Administrators. Presentation at the Joint Employment and Training Technology Conference, Washington, DC.

- Steuck, K.W., Rowley, K., & Kretschmer, M. (1999, July). Partnering to implement computer-based tutoring systems in secondary schools. Paper presented at the Society for Applied Learning Technology Conference, Washington, DC.
- Meyer, T., Steuck, K., Miller, T., Pesthy, C., & Redmon, D. (1999, March). Lessons Learned from the Trenches: Implementing Technology in Public Schools. Paper presented at the Society for Information Technology and Teacher Education Conference, San Antonio, TX
- Meyer, T., Steuck, K., Miller, T., Pesthy, C., & Kretschmer, M. (1999, March). Teaching Scientific Inquiry Skills with an Intelligent Tutoring System. Paper presented at the Mathematics/Science Education & Technology Conference, San Antonio, TX
- Steuck, K. (1998, Aug). Introduction: A large-scale field-based evaluation. Paper presented at ITS98, San Antonio, TX.
- Steuck, K. & Miller, T. (1997, December). Workshop on Learning Technologies. Presentation at the Joint Employment and Training Technology Conference, Chicago, IL.
- Steuck, K. (1997, December). Fundamental Skills Training Technologies for Workforce Development. Presentation at the Joint Employment and Training Technology Conference, Chicago, IL.
- Steuck, K., Deans, M., & Cossette, C. (1997, December). ITSs: Implementing Learning Technologies for At-Risk Youths. Presentation at the Joint Employment and Training Technology Conference, Chicago, IL.
- Rowe, A. L., Meyer, T., Miller, T., & Steuck, K. (1997, Sept). Assessing structural knowledge: Don't call an expert. Paper presented at the 41st annual meeting of the Human Factors and Ergonomics Society, Albuquerque, NM.
- Steuck, K. & Miller, T. (1997, March). An Evaluation of an Authentic Learning Environment for Teaching Scientific Inquiry Skills. Paper presented at the Annual meeting of the American Educational Research Association, Chicago, IL.
- Steuck, K.W. (1996, April). Instruction in Scientific Inquiry Skills. Presentation at Schools in the 21st Century, San Antonio, TX.
- Steuck, K.W. (1996, April). Instruction in Scientific Inquiry Skills. Paper presented at the annual meeting of the National Association for Research on Science Teaching, St Louis, MO.
- Rowe, A.L., Miller, T.M., Dibble, E., & Steuck, K.W. (1995, Oct). Knowledge and Performance: Tracking the development of expertise. Poster presented at the Human Factors and Ergonomics Society Annual Meeting, San Diego, CA.
- Steuck, K.W. (1995, March). Instruction in Scientific Inquiry Skills. Paper presented at the Working Conference on Technology Applications in the Science Classroom, National Center for Science Teaching and Learning, Columbus, Ohio.
- Steuck, K.W. (1992, June). Fundamental Skills Training Project: A tutoring system evaluation. Presentation at the National Education Computing Conference 1992, Dallas, TX.

- Steuck, K.W. and Bellows, J. (1992, April). The initial evaluation of an intelligent tutoring system for prealgebra word problems. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Steuck, K.W. (1991, December). A large-scale implementation of a math problem solving tutor. Paper presented at the 1991 Technology Innovations in Training and Education Conference, Orlando, FL.
- Steuck, K.W. (1991, October). Fundamental Skills Training Project: Intelligent tutoring systems. Paper presented at the 1991 Military Testing Association Conference, San Antonio, TX.
- Steuck, K.W. (1991, March). Fundamental Skills Training Project. Presentation at the Department of Defense Technical Training Technical Group, Washington, DC.
- Steuck, K.W. (1990, Dec). Automated Knowledge Acquisition for Hypermedia. Paper presented at Hypermedia and Information Reconstruction: Aerospace Applications and Research Directions Conference, Houston, TX.
- Sperl, T.C., Ree, M.J., & Steuck, K.W. (1989, November). Air Force Officer Qualifying Test (AFOQT) and Armed Services Vocational Aptitude Battery (ASVAB): Analysis of common measurement attributes. Paper presented at the Military Testing Association 31st Annual Conference, San Antonio, TX.
- Steuck, K.W. (1989, April). Teaching Knowledge. Session introduction at The 2nd Intelligent Tutoring Systems Research Forum, San Antonio, TX.
- Steuck, K.W. (1989, April). Intelligent Tutoring Systems. Invited seminar presented at St Mary's University 29th Annual Engineering Seminar Series, San Antonio, TX.
- Steuck, K.W. & Fleming, J.L. (1989, March). Issues in the evaluation of intelligent tutoring systems. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA.
- Steuck, K.W. (1989, March). Artificial intelligence in training. Invited Seminar presented at the AI Working Group Meeting. Naval Training Systems Center, Orlando, FL.
- Steuck, K.W. (1987, November). Air Force Officer Qualifying Test (AFOQT): Promising cognitive measures of leadership and management. Presentation at the 1987 Annual Convention of the Texas Psychological Association. San Antonio, Texas.
- Steuck, K.W. and Perea, P. (1986, April). An assessment of multi-option questions in metamemory research. Paper presented at the American Educational Research Association Annual Meeting. San Francisco CA.
- Steuck, K.W. and Enright, R.D. (1984, April). The effects of task demands and children's information storage capacity on metacognitive decisions. Paper presented at the American Educational Research Association Annual Meeting. New Orleans LA.