



Kelly A. Burke, PhD

Human Factors Consultant

Professional Profile:

Kelly Burke is a human factors specialist with academic and professional experience in research, design, and evaluation methods in a variety of areas including the role of stress and individual differences in warning presentation, retention and compliance. She also has professional experience in the design of human centered systems in the aerospace domain and extensive applied experience in the field of construction engineering and management.

Dr. Burke is a Human Factors Consultant for Dorris and Associates International, LLC (DAI). Her primary responsibilities include the evaluation and design of new product safety information, the application of federal, state, and industry consensus standards, and safety evaluations of existing products and their associated safety communications. Additionally, Dr. Burke is responsible for leading and executing human factors research, conducting analysis and formulating recommendations on client projects.

DAI has a wide variety of clients including private and public corporations, non-profit organizations, trade associations, state and federal governmental agencies, as well as defense and plaintiff's attorneys. Client services have been performed in the U.S., Canada, U.K., France, Germany, Spain, Belgium, Australia and Japan. Products manufactured and/or distributed by these clients range from automobiles and airplanes to everyday consumer products and children's toys.

Education:

B.S., Liberal Arts*, The University of the State of New York, Albany, NY (1998)

B.S., Psychology, Armstrong Atlantic State University; Savannah, GA (2000)

M.S., Experimental Psychology, Georgia Southern University; Statesboro, GA (2002)

M.S., Modeling and Simulation, University of Central Florida; Orlando, FL (2004)

Ph.D., Applied and Experimental and Human Factors and Psychology, University of Central Florida; Orlando, FL (2006)

*The majority of courses taken to earn this degree were from California Polytechnic State University, San Luis Obispo, Department of Industrial Engineering.

Professional Development:

Using Warnings and Instructions to Increase Safety and Decrease Liability, The University of Wisconsin, Department of Engineering Professional Development; Madison, WI (2010)

Occupational Safety and Health Standards for General Industry, Occupational Safety and Health Administration; Atlanta, GA (2009)

Professional Affiliations and Services:

Associate Human Factors Professional (AHFP)

Human Factors and Ergonomics Society (HFES)

American Society of Safety Engineers (ASSE)

Society of Automotive Engineers (SAE)

Georgia Southern State University, Department of Psychology, Advisory Board Member

Honors & Awards:

Honeywell Bravo (Bronze) Award; Received for outstanding service during field testing of the Soldier Augmented Cognition Project at Aberdeen Proving Grounds, MD

Graduate Student Incentive Fellowship, University of Central Florida

Treasurer of the Student Chapter of the Human Factors and Ergonomics Society, University of Central Florida

Runner-up (second place) for the Best Student Paper, Cognitive Engineering and Decision Making Technical Group of Human Factors and Ergonomics Society, 47th Annual Meeting

Publications:

Burke, K.A., Dorris, N.T., & Dorris, A.L (2010). Sunscreen Labeling and Warnings: A Human Factors Analysis. To be published in the *Proceedings of the Applied Human Factors and Ergonomics 3rd International Conference*, Miami, FL.

Burke, K.A., Rogers, W., Feigh, K., & Ververs, P. (2008). Comparison of a Prototype Graphical Flight Planner and a Multi-function Control Unit and Display. *Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting*, New York, NY.

Mazaeva, N., Mathan, N., Dorneich, M., Whitlow, S., Ververs, P., & Burke, K.A., (2007). Characterization of Changes in Electrophysiological Activity in an

Operational Environment. *Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting*, Baltimore, MD

Burke, K.A., Oron-Gilad, T., Conway, G. & Hancock, P.A. (2007). Friend/Foe Identification and Shooting Performance: Effects of Prior Task Loading and Time Pressure. *Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting*, Baltimore, MD.

Burke, K.A., Szalma, J., Oron-Gilad, T., & Hancock, P.A. (2005). Testing the Efficiency and Effectiveness of Soldier Performance under Increasing Task Demand. *Proceedings of the Human Factors and Ergonomics Society 49th Annual Meeting*, Orlando, FL.

Helmick-Rich, J.A., Burke, K.A., Oron-Gilad, T., & Hancock, P.A. (2004). *The Effects of Warning Presentation and Retention under Varying Levels of Stress*. *Proceedings of the Human Factors and Ergonomics Society 48th Annual Meeting*, New Orleans, LA.

Burke, K.A., & Murray, J.D. (2003). The Influence of an Opponent and Time Pressure in a Risky Naturalistic Decision Making Task. *Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting*, Denver, CO.

Murray, J.D., & Burke, K.A. (2003). Activation and encoding of forward inferences: The role of reading skill. *Discourse Processes*, 35, 81-102.

Greenwood-Ericksen, A., Weaver, J.L., Burke, K.A., Bradley, K.A., & Hancock, P.A. (2003). *An affordable medium-fidelity virtual environment soldier simulator designed for infantry combat research*. *Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting*, Denver, CO.

Weaver, J.L., Helmick, J.A., & Burke, K.A. (2003). The role of stress and individual differences in compliance to various levels of written warnings. *Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting*, Denver, CO.

Weaver, J.L., Bradley, K.A., Burke, K.A., Helmick, J.A., Greenwood-Ericksen, A., & Hancock, P.A. (2003). *An experimental investigation of the skills, rules, and knowledge paradigm under noise conditions*. *Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting*, Denver, CO.

Burke, K.A., & Murray, J.D. (2001). *The Influence of an Opponent in Naturalistic Decision Making*. *Proceedings of the Annual Meeting of the Psychonomics Society*, Orlando, FL.