



## **Eric J. Boelhouwer, PhD, CSP, CPE Consultant**

### **Professional Profile**

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Eric Boelhouwer is a human factors specialist (ergonomist) with professional experience in product safety and the evaluation of instructions, warnings and other safety communications. Dr. Boelhouwer is a Consultant for Dorris and Associates International, LLC. His primary responsibilities include the design and implementation of product safety research, including evaluations of human-machine interfaces, as well as the usability and effectiveness of precautionary information. Dr. Boelhouwer represents Dorris and Associates as a member of several ANSI Z535 standard subcommittees, which pertain to the design of warning signs, labels and various other safety communications.

Dorris and Associates 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.

Dr. Boelhouwer is also an Affiliate Professor in the Industrial and Systems Engineering Department of Auburn University.

### **Education**

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PhD, Industrial and Systems Engineering, Auburn University; Auburn, AL (2010)

MISE, Industrial and Systems Engineering, Auburn University; Auburn, AL (2008)

MBA, Business Administration, Tulane University; New Orleans, LA (2004)

BChE, Chemical Engineering, Georgia Institute of Technology; Atlanta, GA (1998)

### **Professional Affiliations & Service**

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Certified Safety Professional (CSP)

Certified Professional Ergonomist (CPE)

American Institute of Chemical Engineers (AIChE), Senior Member

American Society of Safety Engineers (ASSE), Professional Member

Human Factors and Ergonomics Society (HFES)

National Safety Council (NSC)

Society of Automotive Engineers (SAE)

Society for Chemical Hazard Communication (SCHC), Board of Directors, 2013-2016,  
Treasurer, 2016-Present

Institute of Industrial & Systems Engineers (IISE)

### **Grants, Honors & Awards**

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National Institute for Occupational Safety and Health (NIOSH) Graduate Fellowship

Boelhouwer, EJ and Davis, GA (2009). Improving Comprehension of GHS Safety Data Sheets. Submitted to NIOSH, DSCOHS, Pilot Project Research Training Program. Funded for \$12,000.

Alpha Pi Mu Industrial Engineering Honor Society

2009 INFORMS Doctoral Colloquium Participant

Eagle Scout

### **Publications & Reports**

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Boelhouwer, EJ, Davis, J, Franco-Watkins, A, Dorris, NT & Lungu, C (2013). Comprehension of hazard communication: Effects of pictograms on safety data sheets and labels. *Journal of Safety Research*, 46, September, 145-155.

Boelhouwer, EJ & Davis, J (2010). Effects of GHS Hazard Category, Signal Words, and Pictograms on an Individual's Assessment of Perceived Risk. In *Proceedings of the Human Factors and Ergonomics Society 54<sup>th</sup> Annual Meeting*, Santa Monica, CA: The Human Factors and Ergonomics Society.

Piper, AK, Davis, J & Boelhouwer, EJ (2010). Converging International Safety Symbol Designs Using Distributed Interactive Evolutionary Computation. In *Proceedings of the 2010 Industrial Engineering Research Conference*, Norcross, GA: Institute of Industrial Engineers.

Boelhouwer, EJ & Sullivan MR (2010). GHS in the USA: Past, Present and Future. In *Safety 2010: ASSE Professional Development Conference Proceedings*, Baltimore, MD: American Society of Safety Engineers.

Boelhouwer, EJ, Piper, AK & Davis, J (2009). The Use of Hazard and Precautionary Symbols on Safety Data Sheets. In *Proceedings of the Human Factors and Ergonomics Society 53<sup>rd</sup> Annual Meeting*, Santa Monica, CA: The Human Factors and Ergonomics Society.

Piper, AK, Boelhouwer, E J, Davis, GA, Holman, GT & Montgomery, LS (2008). Using Hand Drawn Images to Determine Warning Symbol Design Parameters within Interactive Evolutionary Computation Software. In *Proceedings of the Human Factors and Ergonomics Society 52<sup>nd</sup> Annual Meeting*, Santa Monica, CA: The Human Factors and Ergonomics Society.

Dorris, NT, Valimont, RB & Boelhouwer, EJ (2007). Eye Movements While Reading Degraded On-Product Warnings. In *Proceedings of the Human Factors and Ergonomics Society 51<sup>st</sup> Annual Meeting*, Santa Monica, CA: The Human Factors and Ergonomics Society.

## **Presentations & Seminars**

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“The Future of Product Warnings: Some Questions Answered & Some Answers Questioned.” American Equipment Manufacturers Product Safety & Compliance Seminar, St. Louis, MO. April 2015.

“Twenty-first Century Warnings in a Global World.” Defense Research Institute Product Liability Conference, Washington, D.C. April 2013.

“HAZCOM 101: Comprehensibility.” Society for Chemical Hazard Communication webinar. February 2011.

“Comprehension of Chemical Product Labels: Effects of Hazard and Precautionary Pictograms.” Society for Chemical Hazard Communication Fall Meeting. Washington, D.C. October 2010.

“Putting the Tool Kit into Practice: A Study at Auburn University.” Invited panel member. American Industrial Hygiene Conference and Exposition (AIHce). Toronto, Canada. June 2009.