



## *Curriculum Vitae*

# **Alison G. Vredenburg, Ph.D., CPE**

*Human Factors, Ergonomics, Safety, and Organizational Consulting*

### *Mailing Address*

2588 El Camino Real, F-353

Carlsbad, CA 92008

(760) 434-4741

*fax:* (760) 434-6029

[alisonv@roadrunner.com](mailto:alisonv@roadrunner.com)

[www.HFexpert.com](http://www.HFexpert.com)

## **EDUCATION**

- ◆ Post-Doctoral Research Fellow (1999 – 2001)  
University of California, San Diego, California  
Department of Anesthesiology, School of Medicine  
Designed, conducted, published and presented original research concerning issues critical to understanding the role of human error in medicine including how to objectively identify expert clinical performance and to best train clinicians to attain this level of expertise. Areas of study included the impact of performance shaping factors such as workload, fatigue, training and sleep deprivation.
- ◆ Ph.D. (1998) Industrial-Organizational Psychology  
California School of Professional Psychology, San Diego  
Dissertation topic: Risk Management Programs
- ◆ M.S. (1996) Industrial-Organizational Psychology  
California School of Professional Psychology, San Diego
- ◆ M.S. (1987) Systems Management  
Systems Technology emphasis  
University of Southern California
- ◆ B.A., with Honors (1984) Organizational Psychology  
University of California, Santa Barbara

## **LICENSES AND CERTIFICATIONS**

- ◆ Certified Professional Ergonomist (CPE) #237 (1993)
- ◆ Board Certified Disability Analyst and Fellow #5432-01 (2001)
- ◆ California Teaching Credential (Secondary Social Science) #910021229 (1990)
- ◆ Certified NAUI Scuba Instructor #11578 (1989)

## **CURRENT POSITION**

### **Principal, Vredenburg & Associates, Inc.**

**Carlsbad, CA (1998 – present)**

Consults with businesses and industry in areas including product warning design, injury prevention, machine guarding, job design, job and task analysis, program evaluation, training, risk management, Americans with Disabilities Act (ADA), Fair Housing Act (FHA), Occupational Safety and Health Administration (OSHA), organizational development and assessment, and research instrument development and validation. Conducts and presents original research.

Serves as a forensic (the application of science to law) consultant for product liability, personal injury, FHA/ADA, and employment cases in the areas of human factors, safety, and industrial-organizational psychology. Collects and reviews case material, inspects accident sites and equipment, and performs testing and evaluation. Issues include hazard management, communication, and warning effectiveness; accessibility of housing and public areas; product/equipment design; reasonableness of conduct; human error; adequacy of supervision and training; behavioral expectations; employee discrimination and harassment; visibility, conspicuity, and lighting; perception/reaction times; and slips and falls. Since 1990, has consulted on hundreds of cases and qualified as an expert in Municipal, Superior, and Federal District courts.

## **PATENTS**

### **Motorcycle Conspicuity Enhancement System (Patent #5754097).**

Inventor of new system designed to increase motorcycle visibility to other motor vehicle drivers during daytime conditions.

### **Coefficient of Friction Tester (Patent #5736630).**

Consulted in the user requirements for the design of a COF tester that can be used to test both static and dynamic COF in both wet and dry conditions.

## **UNIVERSITY APPOINTMENTS**

### **Consultant**

San Diego Center for Patient Safety (2001 – present)

A joint effort of UCSD and the VA San Diego Healthcare System

Participates in research design and analysis, manuscript preparation, and grant writing.

### **Adjunct Research Associate**

Rensselaer Polytechnic Institute, Troy, New York

Department of Philosophy, Psychology and Cognitive Science (2000 – 2004)

Assisted in the development of the forensic psychology program. Sat on thesis and dissertation committees.

## **INDUSTRIAL-ORGANIZATIONAL CONSULTING**

### **Warnings Consultant**

#### **Broco, Inc. (2006)**

Developed and tested warnings regarding an underwater cutting torch for the Owner's Manual and packaging.

### **Warnings Consultant**

#### **E-Force (2002)**

Developed and tested warnings regarding protective eyewear for racquetball for the Owner's Manual and other product materials.

### **Warnings Consultant**

#### **American Racing Wheels (2001-2003)**

Developed and tested warnings for the Owner's Manual and other product materials.

### **Ergonomics Consultant**

#### **Cargill Corporation (2001-2002)**

Performed ergonomics and job hazard analyses of railcar unloading, including, hose management, steam cleaning, fall protection, and working under railcars. Developed, conducted and analyzed organizational safety culture study.

### **Americans with Disability Act Consultant**

#### **Union-Tribune Newspaper, San Diego, CA (1999 – 2004)**

Developed an Americans with Disability Act (ADA) plan, which included an evaluation of the accessibility of the production and office facilities, and plan for barrier removal.

### **Human Factors and Safety Consultant**

#### **Ventura County Medical Center (1999)**

Performed an analysis of back injury risk factors for four departments: medical/surgical, housekeeping, maintenance and laundry. Trained hospital employees in the hazards associated with their jobs and methods to prevent back injuries.

### **Human Factors and Safety Consultant**

#### **County of Ventura (1999)**

Performed a job hazard analysis to determine all potential areas of injury exposure in the performance of the garbage collection job.

### **Human Factors and Safety Consultant**

#### **Stanford Health Services, Department of Radiology, Stanford, CA (1996)**

Determined the physical requirements of the hospital employees in the radiology department by conducting tests and force measurements of the equipment used to perform required tasks. Performed a job analysis in order to determine whether a disabled employee could perform the X-ray technician job based on his capabilities and limitations as specified in his functional capacity evaluation.

**Human Factors and Safety Consultant**

**Bayer, Pharmaceutical Division, San Diego, CA (1995)**

Performed workstation evaluations of both office and industrial employees. Identified risk factors, and made recommendations to increase safety and performance of employees.

**Human Factors and Safety Consultant**

**Lens Manufacturer, San Diego, CA (1995)**

Developed response to an OSHA Special Order. Developed and implemented a new risk management program, redesigned jobs, and designed new tools.

## **EMPLOYMENT HISTORY**

**Vice President, Research and Development**

**Error Analysis, Inc.**

**La Mesa, CA (1990 –1998)**

Consulted in industrial-organizational areas including warnings, job and task analysis, job design, training, occupational safety and health (OSHA), and research instrument development and validation. Directed, published, and presented original research studies. Directed Ph.D. internship program between Error Analysis, Inc. and the California School of Professional Psychology. Supervised students' pre-doctoral internship hours. Served as a forensic consultant for product liability and personal injury accident cases in the area of human factors, safety, and industrial-organizational psychology.

**Business Operations**

**Hughes Aircraft Company**

**El Segundo, CA (1984 –1989)**

Developed and implemented emergency preparedness program plan conforming to OSHA requirements. Developed specifications to automate a computer-generated monthly management reporting system. Administered the performance and cost improvement programs. Researched, documented, and verified implementation of employee recommended system enhancements. Facilitated quality circles. Taught courses in the areas of safety, supervision, quality, computer software, and business writing. Interfaced with the customer (U.S. Army) regarding major proposal status and helped develop Hughes' negotiation position. Developed numerous safety, performance, and quality procedures.

## **STUDENT INTERNSHIPS**

**Peer Health Educator**

**University of California, Santa Barbara, CA (1982 –1983)**

Received UCSB certification. Developed and conducted seminars to student community on health-related issues.

**Medical Aide**

**Isla Vista Medical Clinic, Goleta, CA (1982 –1983)**

Assisted physicians with medical exams and minor surgeries. Ran lab tests.

## **VOLUNTEER POSITIONS**

- ◆ Has served both elected and appointed offices of the Forensics Professional Group (FPG; Human Factors and Ergonomics Society). Elected Chair of the FPG (2004-2006).
- ◆ Served as a judge for the San Diego Science and Engineering Fair (2006, 2007, 2008, 2009).
- ◆ Served as a judge for the California State Science Fair (2006, 2007).
- ◆ Elected to the Board of the Forensic Expert Witness Association (FEWA), Orange County. Served as delegate to the State FEWA Board (2004).
- ◆ Served as Vice-President of the San Diego Forensics Consultants Association (2002-2003).
- ◆ Developed the program and coached the Valley Middle School Science Olympiad team. Received the Chamber's *Outstanding Educational Program* award for most Innovative Program (5/20/05).
- ◆ Has served as Chair of various technical sessions at Annual Meetings of the HFES.
- ◆ Served on the Citizens' Bond Oversight Committee of the Carlsbad City Schools (2000-2001). Met monthly with the Superintendent (specialty area: school safety).
- ◆ Served as a member of Carlsbad Unified School District, Parent/Superintendent Advisory Committee (2005-2006).
- ◆ Served on the Board of the Carlsbad Strings Education Association (Vice-President 2004-2007).

## **MEMBERSHIPS**

- ◆ Human Factors and Ergonomics Society (HFES)
- ◆ Forensics Professional Group (Elected Chair) of the HFES
- ◆ Safety Technical Group of the HFES
- ◆ Psi Chi Honors Society
- ◆ Forensics Consultants Association
- ◆ Forensic Expert Witness Association

## **RELATED SKILLS**

- ◆ Fluent in Spanish for instructions and warnings development and translations
- ◆ Photography: photographs of accident sites, equipment, and the workplace are frequently used for courtroom exhibits, textbooks, lectures and industrial-organizational training.

## **PEER REVIEWER**

- ◆ *Journal of Occupational and Environmental Medicine*. Lippincott Williams & Wilkins.
- ◆ *The Handbook of Warnings: Design and Use*. Lawrence Erlbaum Associates, Inc.
- ◆ *Human Factors Aspects of Handgun Safety*. Lawrence Erlbaum Associates, Inc.
- ◆ *Human Factors Perspectives on Warnings, Volume 2*. Human Factors and Ergonomics Society
- ◆ *Human Factors and Ergonomics Society Annual Meeting Proceedings*. Human Factors and Ergonomics Society
- ◆ *Regulation & Governance*. Wiley-Blackwell, John Wiley & Sons, Inc.

## PUBLICATIONS

- Zackowitz, I.B. Vredenburg, & A.G. (in press). Evaluation of Methods to Remedy Existing Multi-Family Housing to Maximize Accessibility to Residents. In Proceedings of the 3rd International Conference on Applied Human Factors and Ergonomics.
- Vredenburg, M.J., Spencer, D, DeTaboada, M.R., Zackowitz, I.B. & Vredenburg, A.G. (in press). What constitutes typical adolescent behavior and how does it differ from adult conduct? In Proceedings of the 3rd International Conference on Applied Human Factors and Ergonomics.
- Vredenburg, A.G., Williams, K. Zackowitz, I.B. & Welner, J.M. (in press). Evaluation of Wheelchair Users' Perceived Kitchen and Bathroom Usability: Effort and Accessibility. *Journal of Architectural and Planning Research*.
- Vredenburg, A.G. & Zackowitz, I.B. (2009). How Best to Accommodate People with Disabilities Residing in Existing Multi-Family Housing. In *Proceedings of the Human Factors and Ergonomics Society 53rd Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society.
- Vredenburg, A.G., Hedge, A. Zackowitz, I.B. & Welner, J.M. (2009). Evaluation of Wheelchair Users' Perceived Sidewalk and Ramp Slope: Effort and Accessibility. *Journal of Architectural and Planning Research*, 26(2), 145-158.
- Vredenburg, A.G. & Zackowitz, I.B. (2009). Drug Labeling and its Impact on Patient Safety. In Sonja Koneczny (Ed.), *WORK: A Journal of Prevention, Assessment & Rehabilitation, Volume 33, Number 2*. (pp. 169-174). The Netherlands: IOS Press.
- Zackowitz, I.B. & Vredenburg, A.G. (2008). Forensic Human Factors: People, places, products. In C.M. Carswell (Ed.). *Reviews of Human Factors and Ergonomics, Volume 4*. (pp. 75-104). Santa Monica, CA: Human Factors and Ergonomics Society.
- Vredenburg, A.G. & Zackowitz, I.B. (2008). Drug Labeling and its Impact on Patient Safety. In *Proceedings of the Human Factors and Ergonomics Society 52nd Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 842-844.
- Vredenburg, A.G. & Zackowitz, I.B. (2008). Who turned off the lights? *Proceedings of the Applied Human Factors and Ergonomics 2<sup>nd</sup> International Conference*, Las Vegas, NV.
- Zackowitz, I.B. & Vredenburg, A.G. (2008). When is a Warnings Case Not a Warnings Case? *Proceedings of the Applied Human Factors and Ergonomics 2<sup>nd</sup> International Conference*, Las Vegas, NV.
- Kalsher, M.J., Cao, C.G.L., Weinger, M., Vredenburg, A.G., Israelski, E., Spyridon, G., Yoshida, D., & McLeod, R. (2007). Mock Trial: Role of Human Factors in Litigation Involving Automated External Defibrillators (AED). In *Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 1514-1516.
- Zackowitz, I.B., & Vredenburg, A.G. (2007). When Communication Failure Contributes to an Injury: A Case Study of Para-Transportation for Wheelchair Users. In *Proceedings of the Human Factors and*

*Ergonomics Society 51st Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 559-563.

- Kalsher, M.J., Van Duijne, F., Waters Deppa, S., Mont.Alvão Pontificia, C., Rother, H.A., Vredenburg, A.G., Wogalter, M. (2007). An International Perspective on Risk Communications: Adapting to Safety Demands in the Emerging Global Economy. In *Proceedings of the Human Factors and Ergonomics Society 51st Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 1403-1405.
- Vredenburg, A.G. & Zackowitz, I.B. (2007). Playground: Safety and Ergonomics. In R. Lueder & V. Berg Rice (Eds.). *Ergonomics for Children: Designing products and places for toddler to teens*. (pp. 907-925). London: Taylor & Francis.
- Catalano, J.N., & Vredenburg, A.G. (2007). Trial Demonstration: Cross-examination of an expert witness. *Proceedings of the 16<sup>th</sup> Annual National Expert Witness Conference*, Falmouth, MA: SEAK, 37-40.
- Vredenburg, A.G., (2007). Advanced expert techniques. *Proceedings of the 16<sup>th</sup> Annual National Expert Witness Conference*, Falmouth, MA: SEAK, 151-155.
- Vredenburg, A.G., Hedge, A., Zackowitz, I.B., & Welner, J.M. (2007). Vol. 13. Using human factors engineering to evaluate existing walkway accessibility standards. In *Proceedings of the 59th Annual Meeting of the American Academy of Forensic Sciences*, Denver, CO: Publication Printers, Corp., 172-173.
- Vredenburg, A.G., Vredenburg, M.J., & Kalsher, M.J. (2006). Adolescent risk perception and self-protective behavior regarding airsoft and paintball Guns. *IEA2006: 16th World Congress on Ergonomics*. Elsevier Ltd.
- Vredenburg, A.G., Vredenburg, M.J., & Kalsher, M.J. (2006). Evaluating hazard communication of patient medication information sheets for prescription drugs. *IEA2006: 16th World Congress on Ergonomics*. Elsevier Ltd.
- Vredenburg, A.G. (2006). How do consumer expectations affect warning compliance? *The Daily Transcript*. (San Diego Top Attorneys supplement). July 20, 2006.
- Vredenburg, A.G. & Vredenburg, M.J. (2006). Vol. 12. Human factors evaluation of a steam shower. In *Proceedings of the 58th Annual Meeting of the American Academy of Forensic Sciences*, Denver, CO: Publication Printers, Corp., 132.
- Vredenburg, A.G. & Zackowitz, I.B. (2006). Expectations. In M. Wogalter (Ed.), *The Handbook of Warnings*. (pp. 345-354). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Vredenburg, A.G. & Helmick-Rich, J.A. (2006). Extrinsic nonwarning factors. In M. Wogalter (Ed.), *The Handbook of Warnings*. (pp. 373-384). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Vredenburg, A.G. & Williams, K. (2005). Evaluating the effects of frost heave on the feasibility of compliance with existing walkway accessibility standards. In *Proceedings of the Human Factors and*

*Ergonomics Society 49th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 813-817.

Zackowitz, I.B., Vredenburg, A.G., & Hedge, A. (2005). A critical analysis of the usability and design of aluminum wheelchair ramps. In *Proceedings of the Human Factors and Ergonomics Society 49th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 803-807.

Murphy, W.H. Vredenburg, A., Weinger, M.G. & Yoshida, D. (2005). Human factors engineering, legal liability, malpractice, and patient safety. In *Human Factors, Ergonomics, and Patient Safety for medical Devices*. Arlington, VA: Association for the Advancement of Medical Instrumentation (AAMI).

Vredenburg, A.G., Longden, S., Williams, K.J., & Kalsher, M.J. (2005). Evaluating latex glove container warnings in a realistic setting. *International Journal of Industrial Ergonomics*, 35, 559-568.

Vredenburg, A.G. & Zackowitz, I.B. (2005). Human factors issues to be considered by product liability experts. In Y.I. Noy & W. Karwowski (Eds.), *Handbook of Human Factors in Litigation*. (pp. 26-1 – 26-11). Boca Raton, FL: CRC Press.

Vredenburg, A.G. & Zackowitz, I.B. (2005). Sexual harassment: A forensic human factors perspective. In Y.I. Noy & W. Karwowski (Eds.), *Handbook of Human Factors in Litigation*. (pp. 36-1 – 36-9). Boca Raton, FL: CRC Press.

Zackowitz, I.B., & Vredenburg, A.G. (2005). Preschoolers, adolescents and seniors: Age-related factors that pertain to forensic human factors analyses. In Y.I. Noy & W. Karwowski (Eds.), *Handbook of Human Factors in Litigation*. (pp. 35-1 – 35-11). Boca Raton, FL: CRC Press.

Vredenburg, A.G. & Weinger, M.B. (2004). Communication of drug hazard information: A critical analysis of how the relationship between the pharmaceutical companies, the FDA, clinicians and patients impacts patient safety. In *Proceedings of the Human Factors and Ergonomics Society 48th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 2040-2044.

Hornick, R.J. & Vredenburg, A.G. (2004). A two-way street – with hazards; Expert/attorney communications. In *Proceedings of the Human Factors and Ergonomics Society 48th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 1129-1130.

Vredenburg, A.G. & Weinger, M.B. (2004). Examination of apparent flaws in the American drug hazard detection, evaluation, and risk communication system. Abstract in the Program of the *Second Annual Patient Safety Conference: Making care safer one patient at a time*. San Diego, CA, 100.

Vredenburg, A.G. (2003). Intervention effectiveness: Evaluation of six workplace safety programs to determine their contribution to injury reduction. Abstract in *Proceedings of the National Occupational Injury Research Symposium (NOIRS)*. Pittsburgh, PA, 101.

Vredenburg, A.G., Longden, S., Williams, K.J., & Kalsher, M.J. (2003). Medical product labeling: The evaluation of latex allergy warnings in a realistic setting. In *Proceedings of the Human Factors and*

*Ergonomics Society 47th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 1554-1558.

Vredenburg, A.G., & Zackowitz, I.B. (2003). Conducting a systems evaluation to address workplace radiation exposure hazard. In *Proceedings of the Human Factors and Ergonomics Society 47th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 1252-1255.

Vredenburg A.G., & Zackowitz I.B., (2002). Sexual harassment: An organizational safety issue. In *Proceedings of the Human Factors and Ergonomics Society 46th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 915-919.

Vredenburg, A., (2002). Organizational safety: Which management practices are most effective in reducing employee injury rates? *Journal of Safety Research*, 33, 259-276.

Vredenburg, A.G., & Zackowitz, I.B. (2002). Playground safety: A forensic human factors analysis of fall injuries. In *Proceedings of the 54th Annual Meeting of the American Academy of Forensic Sciences*, Denver, CO: Publication Printers, Corp., 95-96.

Zackowitz, I.B, & Vredenburg, A.G. (2002). Applying a forensic human factors engineering analysis to falls in elderly people. In *Proceedings of the 54th Annual Meeting of the American Academy of Forensic Sciences*, Denver, CO: Publication Printers, Corp., 96-97.

Vredenburg, A.G., & Zackowitz, I.B. (2001). Evaluating the effectiveness of a pictorial-only warning on a trolley coupler. In *Proceedings of the Human Factors and Ergonomics Society 45th Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 848-851.

Vredenburg, A. (Feb. 2001) Letter to the Editor: The safety bar. *Consumer Reports*.

Vredenburg, A.G., & Zackowitz, I. B. (2001). Work-related musculoskeletal disorders: Ergonomic risk to healthcare workers. In D. Alexander & R. Rouborne (Eds.), *Applied Ergonomics*. (pp. 146-155). London: Taylor & Francis.

Vredenburg, A.G., & Zackowitz, I. B. (2001). Ergonomics programs: Reducing work-related musculoskeletal injuries. In D. Alexander & R. Rouborne (Eds.), *Applied Ergonomics*. (pp. 259-268). London: Taylor & Francis.

Weinger, M.B, Vredenburg, A.G., Schumann, C.M., Macario, Williams, K.J., Kalsher, M.J., Smith, B., Truong, P.C., & Kim, A. (2000). Quantitative description of the workload associated with airway management procedures. *Journal of Clinical Anesthesiology*, 12(4), 273-82.

Vredenburg, A., Weinger, M., Macario, A., & Smith, B. (2000). Developing a technique to measure anesthesiologists' real-time workload. In *Proceedings of the XIVth Triennial Congress of the International Ergonomics Association and 44<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society, 4-241 – 4-244.

Vredenburg, A. (2000) Get ready to be challenged: How to prepare for the qualification process. *Forum*, 16(2), 5. Reprinted in *Council of Technical Groups Digest*, 3(1) March 2001.

- Vredenburg A., Hendrick, H. & Zackowitz, I. (2000). Are personality traits useful predictors of managers' success? In *Proceedings of the XIVth Triennial Congress of the International Ergonomics Association and 44<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society, 2-301 – 2-304.
- Noy, I., Vredenburg, A., Hornick, R., Mortimer, R., Olsen, R., Thompson, D., Ryan, P., Savaglio, B. & Spangler, J. (2000). Mock trial: Human factors contributions to litigation involving adaptive cruise control. In *Proceedings of the XIVth Triennial Congress of the International Ergonomics Association and 44<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society, 6-398 – 6-401.
- Vredenburg, A., McLeod, J., & Nebeker, D. (1999). Under what circumstances do extrinsic rewards decrease intrinsic motivation? In *Proceedings of the Human Factors and Ergonomics Society 43<sup>rd</sup> Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 830-834.
- Vredenburg, A., (1999). Risk management: Which management practices are best predictors of employee injury rates? In *Proceedings of the Human Factors and Ergonomics Society 43<sup>rd</sup> Annual Meeting*. Santa Monica, CA: Human Factors and Ergonomics Society, 902-906.
- Vredenburg, A.G. (1998). *Safety management: Which organizational factors predict hospital employee injury rates?* Doctoral dissertation. California School of Professional Psychology, San Diego, CA.
- Vredenburg, A.G., & Zackowitz, I.B. (1998). Older drivers: A forensic human factors analysis. (Summary) In *Proceedings of the 50th Annual Meeting of the American Academy of Forensic Sciences*, Denver, CO: Publication Printers, Corp., 91-92.
- Vredenburg, A., Hendrick, H. & Zackowitz, I. (1998). Hotel managers: What personality traits predict their success? (Summary) In *Proceedings of the IO/OB 19th Annual Graduate Conference*, San Diego, CA., 112-114.
- Zackowitz, I.B. & Vredenburg, A.G. (1998). Preschoolers: A forensic human factors analysis. (Summary) In *Proceedings of the 50th Annual Meeting of the American Academy of Forensic Sciences*, Denver, CO: Publication Printers, Corp., 90-91.
- Zackowitz, I. & Vredenburg, A. (1998). How individuals manage their impressions when presenting to their peers. (Summary) In *Proceedings of the IO/OB 19th Annual Graduate Conference*, San Diego, CA., 94.
- Zackowitz, I., Cohen, H. & Vredenburg, A. (1998). Operationally defining a legal term for forensic human factors. In *Proceedings of the Silicon Valley Ergonomics Conference*, Palo Alto, CA., 185-189.
- Vredenburg, A., Cohen, H.H., Hornick, R., Laughery, K., Leonard, D., Olsen, R., Smith, L., Thompson, D., Wogalter, M. & Zackowitz, I. (1997). Mock trial: How human factors experts contribute to civil litigation. Case 1: A pedestrian's encounter with a tripping hazard. In *Proceedings of the 41st Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society, (1) 524-528.

- Vredenburg, A., Cohen, H.H., Hornick, R., Laughery, K., Leonard, D., Olsen, R., Smith, L., Thompson, D., Wogalter, M. & Zackowitz, I. (1997). Mock trial: How human factors experts contribute to civil litigation. Case 2: Adequacy of warning systems to address product hazards. In *Proceedings of the 41st Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society, (1) 524-528.
- Vredenburg, A.G., Andressen, B. & Cohen, H.H. (1996). The development and testing of a device to enhance motorcycle conspicuity and reduce accident. In *Proceedings of the 48th Annual Meeting of the American Academy of Forensic Sciences*, Denver, CO: Publication Printers, Corp., 74.
- Vredenburg, A.G. & Plourd, S. (1996). The development of a time-distance factor for car accident reconstruction. In *Proceedings of the 48th Annual Meeting of the American Academy of Forensic Sciences*, Denver, CO: Publication Printers, Corp., 73-74.
- Vredenburg, A.G., & Cohen, H.H. (1996). Human factors analysis applied to a first amendment case: The rights of a few evaluated in terms of public safety. *The Forum*, 12(2). Santa Monica, CA: Human Factors and Ergonomics Society, 7-10.
- Vredenburg, A.G., Zackowitz, I.B., & Cohen, H.H. (1996). Comparative risk perception of common activities: A forensic perspective. In *Proceedings of the 41st Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society, (1), 520-524.
- Vredenburg, A.G., Saifer, A.G., & Cohen, H.H. (1995). You are going to do what with that thing? An ergonomic analysis of a medical device. *Ergonomics in Design*, April. Santa Monica, CA: Human Factors and Ergonomics Society, 16-20.
- Vredenburg, A.G., & Cohen, H.H. (1995). High-risk recreational activities: Skiing and scuba – What predicts compliance with warnings? *International Journal of Industrial Ergonomics*, 15, 123-128. Abstract reprinted (1996), *Journal of Safety Research*, 27(2), 134-135.
- Vredenburg, A.G., & Cohen, H.H. (1995). Does culture affect risk perception?: Comparisons among Mexicans, African-Americans, Asians, and Caucasians. In *Proceedings of the 39th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society, (2), 1015-1019. Abstract reprinted (1996), *Journal of Safety Research*, 27(2), 272.
- Vredenburg, A.G., & Cohen, H.H. (1995). Enhanced motorcycle conspicuity through daytime use of the Motorcycle Conspicuity Enhancement System (MCES). In *Proceedings of the 39th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society, (2), 1048-1052.
- Vredenburg, A.G., Plourd, S., Saifer, A.G., & Cohen, H.H. (1994). Collision causation: Time attention is directed away from traffic in front of vehicle while preparing for a lane change. In *Proceedings of the 12<sup>th</sup> Triennial Congress of the International Ergonomics Association Congress*, Vol. 6. Toronto: Human Factors Association of Canada, 252-254.

Vredenburg, A.G. & Cohen, H.H. (1993). Compliance with warnings in high-risk recreational activities: Skiing and scuba. In *Proceedings of the 37th Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA: Human Factors and Ergonomics Society (2), 945-949.

## **INVITED LECTURES AND SYMPOSIA**

An international perspective on risk communications: Adapting to safety demands in the emerging global economy. Presented at the Human Factors and Ergonomics Society 51st Annual Meeting, Baltimore, Maryland, October 5, 2007.

Trial demonstration: Cross-examination of an expert witness. Presented with Jeffrey Catalano, Esq. at the 16<sup>th</sup> Annual National Expert Witness Conference (SEAK), Hyannis, Massachusetts, June 21, 2007.

Advanced seminar. Presented at the 16<sup>th</sup> Annual National Expert Witness Conference (SEAK), Hyannis, Massachusetts, June 22, 2007.

Human factors engineering, legal liability, malpractice, and patient safety. Panel presentation to the Association for the Advancement of Medical Instrumentation (AAMI), Washington, DC, June 28, 2005.

Intervention effectiveness: Evaluation of six workplace safety programs to determine their contribution to injury reduction. Presented to the National Occupational Injury Research Symposium (NOIRS). Hosted by the National Institute for Occupational Safety and Health (NIOSH), Pittsburgh, Pennsylvania, October 29, 2003.

Reducing work-related musculoskeletal injuries. Presented to the San Diego Chapter of the Human Factors and Ergonomics Society, San Diego, March 28, 2000.

Ergonomic risks to healthcare workers. Presented to the San Diego Chapter of the Human Factors and Ergonomics Society, San Diego, March 28, 2000.

Work-related musculoskeletal disorders: Ergonomic risk to healthcare workers. Presented at the Applied Ergonomics Conference, Los Angeles, March 15, 2000.

Ergonomics programs: Reducing work-related musculoskeletal injuries. Presented at the Applied Ergonomics Conference, Los Angeles, March 16, 2000.

Consulting in the real world: A realistic job profile for graduate students. Presented to a graduate seminar in organization development, Rensselaer Polytechnic Institute, Troy, New York, February 17, 2000.

## **LECTURES**

How Best to Accommodate People with Disabilities Residing in Existing Multi-Family Housing. Presented to the Human Factors and Ergonomics Society 53rd Annual Meeting San Antonio, Texas: Human Factors and Ergonomics Society, October 22, 2009.

Mock Trial: Role of Human Factors in Litigation Involving Automated External Defibrillators (AED). Presented to the Human Factors and Ergonomics Society 51st Annual Meeting. Baltimore Maryland: Human Factors and Ergonomics Society, October 5, 2007.

Using human factors engineering to evaluate existing walkway accessibility standards. Presented at the 59<sup>th</sup> annual meeting of the American Academy of Forensic Sciences, San Antonio, Texas, February 23, 2007.

From practice to science: How application guides warning research. Panel presentation to the IEA2006: 16th World Congress on Ergonomics, Maastricht, Netherlands, July 14, 2006.

Human factors evaluation of a steam shower. Presented at the 58<sup>th</sup> annual meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 23, 2006.

Evaluating the effects of frost heave on the feasibility of compliance with existing walkway accessibility standards. Presented at the Human Factors and Ergonomics Society 49th Annual Meeting, Orlando, Florida, September 27, 2005.

Communication of drug hazard information: A critical analysis of how the relationship between the pharmaceutical companies, the FDA, clinicians and patients impacts patient safety. Presented Human Factors and Ergonomics Society 48<sup>th</sup> Annual Meeting, New Orleans, Louisiana, September 21, 2004.

A two-way street – with hazards: Expert/attorney communications. Presented at the Human Factors and Ergonomics Society 48<sup>th</sup> Annual Meeting, New Orleans, Louisiana, September 23, 2004.

Examination of apparent flaws in the American drug hazard detection, evaluation, and risk communication system. Presented poster to the Second Annual Patient Safety Conference: Making care safer one patient at a time San Diego, California, March 19, 2004.

Medical product labeling: The evaluation of latex allergy warnings in a realistic setting. Presented poster at the Human Factors and Ergonomics Society 47<sup>th</sup> Annual meeting, Denver, Colorado, October 15, 2003.

Conducting a systems evaluation to address workplace radiation exposure hazard. Presented at the Human Factors and Ergonomics Society 47<sup>th</sup> Annual meeting, Denver, Colorado, October 17, 2003.

Playground safety: A forensic human factors analysis of fall injuries. Presented to the 54th Annual Meeting of the American Academy of Forensic Sciences, Atlanta, Georgia, February 15, 2002.

Developing a technique to measure anesthesiologists' real-time workload. Presented to the XIVth Triennial Congress of the International Ergonomics Association and 44<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society. San Diego, California, August 3, 2000.

Are personality traits useful predictors of managers' success? Presented to the XIVth Triennial Congress of the International Ergonomics Association and 44<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society. San Diego, California, August 4, 2000.

Mock trial: Human factors contributions to litigation involving adaptive cruise control. Presented at the XIVth Triennial Congress of the International Ergonomics Association and 44<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society. San Diego, California, August 4, 2000.

Under what circumstances do extrinsic rewards decrease intrinsic motivation? Presented at the Human Factors and Ergonomics Society 43<sup>rd</sup> Annual Meeting. Houston, Texas, September 28, 1999

Risk management: Which management practices are best predictors of employee injury rates? Presented at the Human Factors and Ergonomics Society 43<sup>rd</sup> Annual Meeting. Houston, Texas, September 30, 1999.

Falling, the ADA, and the ergonomics of walking. Presented to the American Society of Safety Engineers (ASSE), Los Angeles Area Professional Development Conference, Los Angeles, California, April 21, 1998.

Older drivers: A forensic human factors analysis. Presented at the 50th Annual Meeting of the American Academy of Forensic Sciences, San Francisco, California, February 11, 1998.

Hotel managers: What personality traits predict their success? Presented at the IO/OB 19th Annual Graduate Conference, San Diego, California, March 29, 1998.

Mock trial: How human factors experts contribute to civil litigation. Case 1: A pedestrian's encounter with a tripping hazard. Presented at the 41st Annual Meeting of the Human Factors and Ergonomics Society. Albuquerque, New Mexico, September 24, 1997.

Mock trial: How human factors experts contribute to civil litigation. Case 2: Adequacy of warning systems to address product hazards. Presented at the 41st Annual Meeting of the Human Factors and Ergonomics Society. Albuquerque, New Mexico, September 24, 1997.

The development and testing of a device to enhance motorcycle conspicuity and reduce accident. Presented at the American Academy of Forensic Sciences, Nashville, Tennessee, February 21, 1996.

The development of a time-distance factor for car accident reconstruction. Presented at the American Academy of Forensic Sciences, Nashville, Tennessee, February 21, 1996.

Comparative risk perception of common activities: A forensic perspective. Presented at the 41st Annual Meeting of the Human Factors and Ergonomics Society. Philadelphia, Pennsylvania, September 4, 1996.

Does culture affect risk perception?: Comparisons among Mexicans, African-Americans, Asians, and Caucasians. Presented at the 39th Annual Meeting of the Human Factors and Ergonomics Society. San Diego, California, October 10, 1995.

Enhanced motorcycle conspicuity through daytime use of the Motorcycle Conspicuity Enhancement System (MCES). Presented at the 39th Annual Meeting of the Human Factors and Ergonomics Society. San Diego, California, October 13, 1995.

Collision causation: Time attention is directed away from traffic in front of vehicle while preparing for a lane change. Presented at the 12<sup>th</sup> Triennial Congress of the International Ergonomics Association Congress. Toronto, Canada, August 17, 1993.

Compliance with warnings in high-risk recreational activities: Skiing and scuba. Presented at the 37th Annual Meeting of the Human Factors and Ergonomics Society. Seattle, Washington, October 12, 1993.