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David G. Curry, Ph.D., CHFP, CSP

Vice President, Human Performance Sciences and Technology

Dr. Curry consults on all aspects of human factors, human performance, ergonomics, and safety. Areas of particular expertise include: human-machine interface design and evaluation, human capabilities and limitations in applied environments, industrial ergonomics, instructions and warnings, perception/vision/visibility, slips/trips/falls, the evaluation of equipment/facilities/structures from a human use standpoint, and safety-related issues in general. He is recognized as an expert in operator-vehicle interaction, and is both a Certified Human Factors Professional and Certified Safety Professional. He has published nearly fifty technical papers dealing with various issues relating to applied human performance and accident investigation. He holds several patents and has or does serve as a member of national standards-making committees for a variety of organizations (e.g., ANSI, ASTM, and SAE.) He has provided expert testimony in both State and Federal courts.

Dr. Curry holds graduate degrees in Experimental, Human Factors, and Cognitive/ Perceptual Psychology, Industrial Engineering, and Business. His experience includes nearly 30 years of work in accident investigation, product design and development, operational testing and analysis, and both laboratory and field research in the control/display, aviation, and surface vehicle arenas. He retired as a Lieutenant Colonel from the Air Force Reserve, where he worked with the Air Force Research Laboratory in the area of display technologies, aircrew training, and pilot-vehicle interfaces.

PROFESSIONAL EXPERIENCE

2007 – Present ITC Experts - Sugar Grove, Illinois

Consulting on all aspects of applied human performance, human factors and ergonomics. Areas of special expertise include: human-machine interaction and interface design, human capabilities and limitations in applied environments, industrial ergonomics, instructions and warnings, vision and vigilance, slip/trip/fall accidents, driver performance, decision making and human error, and the evaluation of facilities and structures from a human use standpoint. Extensive accident investigation and testimony experience.

2000-2007 Packer Engineering. - Naperville, Illinois

Responsible for directing the Human Factors group and for consulting in the areas of human performance in accident investigation, ergonomics, human factors and warnings, driver-vehicle interfaces, person/machine interaction, human perception and performance, machine design, and vision and visibility.

1995-2000 Delphi Delco Electronics Systems - Kokomo, Indiana

Senior human factors engineer for the world's largest automotive electronics supplier. Responsible for leading the development of the driver interfaces for the Automated Highway and Automotive Collision Avoidance Systems (joint industry/government programs.) Responsible for the creation and development of the Delco Usability Laboratory, a facility designed to allow for the software prototyping, evaluation, and testing of candidate user interfaces for in-vehicle electronics systems. Technical lead for product usability and focal point for design and development of user interfaces for high-end automotive multimedia, navigation and entertainment systems utilizing such technologies as multifunction controls, voice recognition, and head-up displays. National-level expert in areas of driver interface design, driver distraction, and related issues.

1993-1995 Science Applications International Corporation, US Army Corps of Engineers
Waterways Experiment Stations - Vicksburg, Mississippi

Chief Scientist responsible for contractor team supporting a \$35M Joint Services effort to develop and provide guidance for camouflage, concealment and deception implementation based on quantified effectiveness measurements of survivability for high-value fixed and relocatable assets against aircraft equipped with both conventional and precision-guided munitions.

1991-1992 USAF Armstrong Laboratory - Wright-Patterson AFB, Ohio

Behavioral Science Research Manager/Project Engineer responsible for technical lead and principal investigations on a team developing a computer-based, interactive human factors design support system. Director of a team of senior-level scientists and engineers on a program to develop a performance and workload assessment system for objectively evaluating aircraft crew stations during flight test.

1990-1991 USAF Armstrong Aeromedical Research Laboratory -
Wright-Patterson AFB, Ohio

Behavioral Science Research Manager responsible for directing a team of upper-level scientific and engineering personnel in a research program investigating potential negative effects of network time delay on distributed flight simulation. Developed a completely new method of quantifying this delay which can be related to both design specifications for future simulators and guidelines for the effective use of existing facilities.

1987-1990 University of Michigan, Departments of Psychology and Industrial/Operations
Engineering - Ann Arbor, Michigan

Recipient of a nationally competitive fellowship sponsored by NASA Center for Excellence in Man-Systems Research. Responsible for conducting original research into theoretical aspects of human motor control and their relationship to the design and operation of aircraft flight controls.

1985-1987 USAF Human Resources Laboratory - Williams AFB, Arizona

Principal Investigator/Research Psychologist responsible for planning, programming, directing and performing research in two critical areas pertinent to the design of computer image generation systems for aircraft simulation: level of target detail and visual scene requirements. Led teams of engineers and scientists in conducting on-site studies and coordinated the efforts of three major contractors. Focal point for joint-service activities in the visual training effectiveness area.

1985-1987 Embry-Riddle Aeronautical University - Williams AFB Extension, Arizona

Adjunct Faculty Member responsible for teaching undergraduate and graduate level courses in human factors, aviation psychology, aircraft simulation, introductory psychology and the history of space flight.

1982-1985 USAF Wright Aeronautical Laboratories - Wright-Patterson AFB, Ohio

Crew Systems Behavioral Engineer responsible for managing research and developing contracts and concepts for advanced aircraft weapons systems. Planned and performed nine original research studies in the field of advanced cockpit design, information interfaces and control/display technologies. Focal point for work in multifunction control and display design, voice recognition and head-up display formats.

ACADEMIC

- Ph.D. University of Michigan, Ann Arbor, Michigan - Psychology (Cognitive and Perceptual track) (1991)
- M.S. University of Michigan, Ann Arbor, Michigan - Industrial/Operations Engineering (Ergonomics track) (1991)
- M.B.A. Indiana University, Kokomo, Indiana (General Administration track) (2000)
- M.A. University of Dayton, Dayton, Ohio - Experimental/Human Factors Psychology (1985)
- B.S. US Air Force Academy, Colorado Springs, Colorado - Behavioral Science (Human Factors & Systems Design track) (1982)

CONTINUING EDUCATION

- OSHA 501: Trainer Course for General Industry, Elgin Community College (2001)
- OSHA 510 Occupational Safety and Health Standards for the Construction Industry

PROFESSIONAL REGISTRATION AND CERTIFICATION

CERTIFICATIONS

BCPE Certified Human Factors Professional
BCSP Certified Safety Professional
Professional Member, American Society of Safety Engineers

AFFILIATIONS

Human Factors and Ergonomics Society
Association for Psychological Science
Society of Automotive Engineers (SAE)
American Society of Testing Materials (ASTM)

APPOINTMENTS

1. Human Factors and Safety Subcommittee (SAE)
2. ANSI B11.TR1 Subcommittee (Ergonomic Guidelines for the Design, Installation and Use of Machine Tools)
3. SAE Safety & Human Factors Steering Committee (1997-2006)
4. ASTM F13 Committee (Pedestrian/Walkway Safety and Footwear)
5. National Highway Traffic Safety Administration Internet Forum on the Safety Implications of Driver Distraction when Using In-Vehicle Technologies, Expert Panelist
6. ASTM E54 Committee (Homeland Security Applications) [2004-2011]
7. FAA General Aviation Joint Steering Committee (GAJSC), Loss of Control of Control Working Group

PUBLICATIONS, MAJOR PRESENTATIONS and PATENTS

PUBLICATIONS

1. D.G. Curry, J.M. Reising, "Electronic Enhancement for the Fighter Aircraft Cockpit," Aerospace and Electronic Systems Society Advanced Concepts and Pioneering Perspectives, IEEE/AESS Symposium, Dayton, Ohio (1984).
2. D.G. Curry, "MAGIC 1: A Study of Manual Versus Vocal Control Under Heavy Task Loading," Psychology in the Department of Defense Proceedings, USAFA-TR-84-2, USAF Academy, Colorado (1984).
3. D.G. Curry, J.M. Reising, J.P. Zenyuh, "Target Designation By Speech, Joystick and Touch Control: Format Design Implications," Proceedings of the National Aeronautics and Electronics Conference, Dayton, Ohio (1985).
4. D.T. Williamson, D.G. Curry, "Speech Recognition Performance Evaluations in Simulated Cockpit Noise," The Official Proceedings of Speech Tech '84, New York (1984).

5. D.T. Williamson, D.G. Curry, "Voice I/O Effectiveness Under Heavy Task Loading," Journal of the American Voice Input/Output Society, vol. 1, No. 1 (1984).
6. D.G. Curry, "A Comparative Evaluation of Subsystem Control and Cursor Positioning Methodologies for Aircraft Usage," AFWAL-TR-85-3022, Wright-Patterson AFB, Ohio (1985).
7. D.G. Curry, "A Comparison of Various Control and Cursor Positioning Methods for Use in Fighter Aircraft," Department of Psychology, University of Dayton, Master's Thesis, Dayton, Ohio (1985).
8. D.G. Curry, J.M. Reising, G. Lizza, "Voice vs. Multifunction Control: A Comparison of Three Control Logics," 1985 Society for Information Display International Symposium Digest of Technical Papers, Orlando, Florida (1985).
9. D.G. Curry, D.W. Biers, J.M. Reising, R.P. Bateman, J.P. Zenyuh, "Voice Versus Multifunction Control with Degraded Manual Dexterity," Proceedings of the IEEE 1986 National Aerospace and Electronics Conference, Dayton, Ohio (1986).
10. K.W. Dixon, D.G. Curry, "Effects of Scene Content and Field of View on Weapons Delivery Training," Proceedings of the 10th Interservice/Industry Training Systems Conference, Washington, D.C. (1987).
11. J.A. Kleiss, D.G. Curry, D.C. Hubbard, "Effect of Three-Dimensional Object Type and Density in Simulated Low-Level Flight," Proceedings of the Human Factors Society 1987 Annual Meeting, Anaheim, California (1987).
12. J.M. Reising, D.G. Curry, "A Comparison of Voice and Multifunction Controls: Logic Design is the Key," Ergonomics, vol. 30, no. 7 (1987).
13. J.P. Zenyuh, D.G. Curry, J.M. Reising, and J.E. McClain, "A Study of Information Transfer Performance of Pictorials vs. Text," Proceedings of the Fourth Symposium On Aviation Psychology, Columbus, Ohio (1987).
14. J.A. Kleiss, D.G. Curry, D.C. Hubbard, "Effect of the Type and Density of Three-Dimensional Object Cues in Simulated Low-Level Flight," AFHRL-TR-88-66, Williams AFB, Arizona (1989).
15. D.G. Curry, "Handedness and Motor Programming Aspects of Manual Control and Movement," Department of Psychology, University of Michigan, Doctoral Dissertation, Ann Arbor, Michigan (1991).
16. D.G. Curry, "Handedness and Motor Programming Aspects of Manual Control and Movement," Armstrong Laboratory Technical Report (1992).

17. D.G. Curry, C.L. Riley, R.R. Williams, "An Objective Quantification of Limited-Area Smoke Screens Against Airborne Attacks," Proceedings of the 1994 Smoke and Obscurants Symposium, Eglin AFB, Florida (1994).
18. C.L. Riley, D.G. Curry, "Quantification of Limited-Area Smoke Screens Against Airborne Attacks, Part II," Proceedings of the 1996 Smoke and Obscurants Symposium, Eglin AFB, Florida (1996).
19. D.G. Curry, T. Jaworski, "Frequency of Use of Automotive Stereo Controls," Proceedings of the Human Factors and Ergonomics Society 1998 Annual Meeting, Chicago, Illinois (1998).
20. D.G. Curry, T. Jaworski, "Usage Patterns of Automotive Stereo Controls," Delphi Delco Electronics Systems TechCon '98 (1998).
21. M.L. Toms, M.A. Cummings-Hill, D.G. Curry, S.M. Cone, "Using Cluster Analysis for Designing Menu Interfaces for In-Vehicle Applications," 2001 SAE International Congress and Exposition, Detroit, MI (2001).
22. D.G. Curry, "In-Vehicle Cell Phones: Smoke, but Where's the Fire?," IEEE Spectrum (2001).
23. D.G. Curry, "Cell Phone Risks," World Highways, v.10, no. 5 (June 2001).
24. D.G. Curry, "In-Vehicle Cell Phones: Fatal Distraction—Yes or No?" Proceedings of the Human Factors and Ergonomics Society 2001 Annual Meeting, Minneapolis, MN (2001).
25. D.G. Curry, "In-Vehicle Cell Phones: Fatal Distraction?" Professional Safety, v. 47, no. 3 (2001).
26. D.G. Curry, G. Martinsen, D.G. Hopper, "Capability of the Human Visual System," Cockpit Displays X, Proceedings of SPIE Vol. 5080, Paper 8 (2003).
27. D.G. Curry, R.D. Quinn, D.R. Atkins, and T.C.G. Carlson, "He was too experienced to have done something like that!," Professional Safety (September 2004).
28. D.G. Curry, S. Zebich and K. Kirk-Braland, "I Fell, Ergo I Slipped: Fact or Fantasy?," Occupational Health & Safety (July 2004).
29. W. Maynard, D. Felinski, C. Bart, C. Burton, D. Curry, R. Fox, D. Levensgood, and T. Uahinui, ANSI B11.TR1-2004, Ergonomic Guidelines for the Design, Installation, and Use of Machine Tools (May 2004).

30. D.G. Curry and A.V. Karvelis, "Ergonomics" in H. Geng (ed.), Manufacturing Engineering Handbook, Chapter 58, pp. 58.1-58.40, New York: McGraw-Hill (June 2004).
31. W.S. Maynard, Wen-Ruey Chang and D.G. Curry, "Industrial Flooring," Health & Safety International (July 2004).
32. D.G. Curry and R.J. Shipley, "When to Warn (and When Not To)," For The Defense (October 2004).
33. D.G. Curry, J.M. McKinney, and S. Paugels, "Utilizing the Human, Machine, and Environmental Matrix in Investigations," 2004 Proceedings, Mary Kay O'Connor Process Safety Center Symposium (October 2004).
34. W. Maynard and D. Curry, "A Macro-ergonomic Approach to Managing Slips and Falls in the Workplace," Human Factors in Organizational Design and Management - VIII (June 2005)
35. D.G. Curry, "Inside the Regs Outside the Envelope: Understanding the delayed effects of alcohol on pilot performance and flight safety," Professional Safety (August 2005)
36. D.G. Curry, R.J. Shipley, and S.L. Worth, "Products Liability Standards for the Duty to Warn – When to Warn (And When Not To)," Indiana Civil Litigation Review (Fall 2005)
37. D.G. Curry and J.M. McKinney, "Utilizing the Human, Machine, and Environment Matrix in Investigations," Journal of Hazardous Materials, Volume 130, Issues 1-2, Pgs. 122-127 (March 2006)
38. D.G. Curry and L.R. Knoll, "Falls From Aerial Lifts – Breaking Down the Humpty Dumpty Theory," Lift and Access, (March/April 2006)
39. D.G. Curry, L.K. Harrington, and D.G. Hopper, "Dichoptic image fusion in the human visual system," Proc. SPIE Vol. 6224, Helmet - and Head-Mounted Displays XI: Technologies and Applications, (April 2006)
40. D.G. Curry, J. E. Meyer and J.M. McKinney, "Seeing versus Perceiving – What you see isn't always what you get," Professional Safety, (June 2006)
41. P. O'Leary, C. Bettinardi, T. Daniel, E. Neilson, D. Curry. "Driver Response to Roadside Obstacles". Proceedings of the Human Factors and Ergonomics Society 50th Annual Meeting, San Francisco, CA, HFES (October 2006)
42. D. G. Curry, R. Reinke, A. Shah, J. Kidd. "The Effect of Marking Paint on Walking Surface Slip Resistance", Proceedings of the International Conference on Slips, Trips, and Falls 2007 – From Research to Practice (August 2007)

43. D.G. Curry, E.A. Nielsen, J.W. Kidd, M.R. Tuttle. "Driver Detection of Roadside Obstacles at Night" Proceedings of the Human Factors and Ergonomics Society 51th Annual Meeting, Baltimore, MD, HFES (October 2007)
44. D.G. Curry, R.J. Shipley, and D.K. Hall "Behavioral Adaptation – Why Safety Features Don't Always Increase Safety", Claims Advisor (October 2007)
45. D. Curry, D. Knutson, and S. Meyers "Is 'Safer' Really Safer?—Pilot Error and Technically Advanced Aircraft", NAFI Mentor, Volume 11, Number 4 (April 2009)
46. D.Curry, D. Knutson, and S. Meyers "Technologically Advanced Aircraft: Is Safer Really Safer?", The Binder, Volume 33, No. 1 (June 2009)
47. D. Curry, A. Mathias, and V. Skawinski "*Slip Sliding Away* - Slip Resistance of Athletic Socks on Indoor Flooring", Proceedings of the Human Factors and Ergonomics Society 53rd Annual Meeting, San Antonio, TX, HFES (October 2009)
48. A. Mathias, D. Curry, C. Donnelly, and L. Drendel "*Slip Sliding Away II*--Slip Resistance of Dress Socks on Indoor Flooring", Proceedings of the Human Factors and Ergonomics Society 54th Annual Meeting, San Francisco, CA, HFES (October 2010)

MAJOR PRESENTATIONS

1. "Allocation of Functions with Automated Speech Recognition Systems," Delco Electronics TechCon '97, Kokomo, IN (1997)
2. "Introduction to Human Factors," Delco Electronics Systems Engineering College, Kokomo, IN (1997 to 2000, semi-annually)
3. "Usage Patterns of Automotive Stereo Controls," Delco Electronics TechCon '98, Kokomo, IN (1998)
4. "Methodology for Minimal Impact Menu Structure Design," Human Factors, User Interaction, and the Creative Edge in Intelligent Transportation Systems; TOPTEC: Designing Smart Products for Smart Vehicles, SAE, San Diego, CA, (1999)
5. "Human Factors at Delco Electronics," Indiana University, Department of Psychology, Kokomo, IN (1999)
6. "The Automotive Collision Avoidance System (ACAS) Driver Vehicle Interface: From Implications to Implementation," Intelligent Transportation Society of America 2000 Annual Meeting, Boston, MA (2000)
7. "Product Liability, Design and Warnings," Department of Mechanical Engineering, Northern Illinois University, DeKalb, IL (2000)

8. "Human Factors in Transportation Systems," NTSB accident investigator training, National Transportation Safety Board, Great Lakes Region, West Chicago, IL (2001)
9. D.G. Curry, D.G. Hopper, "The Capability of the Human Visual System: Myth versus Reality," Aerosense 2002, Orlando, FL [April 1-5, 2002]
10. D.G. Curry, "Fatal Distraction – Yes or No?," Driver Distraction Panel Session in American Bar Association Regional Workshop on Products Liability Issues in the Automotive Industry, Detroit, MI (October 24, 2002)
11. D.G. Curry, "Capability of the Human Visual System," SPIE Aerosense: Photonics for Defense and Security Symposium, Orlando, FL (April 21-25, 2003)
12. D.G. Curry, "Accident Scene Investigation, Documentation, and Witness Statements," seminar presented at PLRB/LIRB/WLA Great Lakes Adjusters Conference, Lincolnshire, IL (September 18-19, 2003)
13. D.G. Curry, "Eyewitness Testimony, or Is What They Say Really What They Saw?," Kane County Bar Association CLE Seminar, Geneva, IL (September 21, 2004)
14. D.G. Curry, "Accident Scene Investigation, Documentation, and Witness Statements," seminar presented at PLRB/LIRB 2004 Regional Adjusters Conference, Bloomingdale, IL (September 22-23, 2004)
15. D.G. Curry, "Accident Scene Investigation, Documentation, and Witness Statements," seminar presented at PLRB/LIRB 2004 Regional Adjusters Conference, Philadelphia, PA (November 9-10, 2004)
16. D.C. Curry, "Human Factors in Aviation Maintenance," Lecture at the Federal Aviation Administration/Illinois Department of Transportation's Maintenance/Aviation Inspection Seminar, Lewis University, Romeoville, IL (March 10, 2005)
17. D.C. Curry, "Slips & Falls: Ergonomic Applications for Prevention and Control," presented at the 2004 Applied Ergonomics Conference, New Orleans, LA (March 23, 2005)
18. D.G. Curry, "Accident Scene Investigation, Documentation, and Witness Statements," Seminar presented at PLRB/LIRB 2005 National Adjusters Conference, San Antonio, TX (April 19-20, 2005)
19. D.G. Curry, "Accident Scene Investigation, Documentation, and Witness Statements," seminar presented at PLRB/LIRB 2006 National Adjusters Conference, Nashville, TN, (April 2-5, 2006)

20. D.G. Curry, "Behavioral Adaptation: Sometimes Safer Products Aren't Really Safer," invited seminar presented at the Eighteenth Annual Product Liability Conference, University of Wisconsin, Madison WI (November 9, 2006)
21. D.G. Curry, "Accidents and Human Factors Considerations: A Defense Perspective," presented at the CTCW Winter Conference, Milwaukee, WI (December 8, 2006)
22. D.G. Curry, "Accident Scene Investigation, Documentation, and Witness Statements," seminar presented at PLRB/LIRB 2007 National Adjusters Conference, Orlando, FL (March 18-21, 2007)
23. D.G. Curry & J.E. Meyer, "Human Factors in Aviation Accidents: Errors and Aging," seminar presented at Aviation Insurance Association Annual Conference, Palm Springs, CA (April 28-May 1, 2007)
24. D.G. Curry "Behavioral Adaptation: Sometimes 'Safer' Products Aren't Really Safer," invited seminar at Illinois Society of Professional Engineers Annual Meeting, Oak Brook, IL (July 13, 2007)
25. D. Sweetin and D.G. Curry "Using an Expert Witness: Why, Who, and How?" National Business Institute "Premises Liability Case Preparation and Trial", Indianapolis, IN (April 25, 2008)
26. D. Knutson, D.G. Curry, and S. Meyers "Applied Aircraft Accident Investigations", Lewis University, Romeoville, IL (March 13 & 14, 2009)
27. D.G. Curry "Eyewitness Testimony or Is What They Said, Really What They Saw?" National Business Institute "Premises Liability Case Preparation and Trial", Indianapolis, IN (April 29, 2009)
28. D. Sweetin and D.G. Curry "Using an Expert Witness: Why, Who, and How?" National Business Institute "Premises Liability Case Preparation and Trial", Indianapolis, IN (April 29, 2009)
29. D. Knutson, S. Meyers, D. Curry "Applied Aircraft Accident Investigation", Lewis University, Romeoville, IL (October 2 & 3, 2009)
30. D. Knutson, S. Meyers, D. Curry "Applied Aircraft Accident Investigation", Lewis University, Romeoville, IL (March 12 & 13, 2010)
31. D. Sweetin and D.G. Curry "Using an Expert Witness: Why, Who, and How?" National Business Institute "Premises Liability Case Preparation and Trial", Indianapolis, IN (April 28, 2010)

32. D.G. Curry “Eyewitness Testimony, or Is What They Said, Really What They Saw?” National Business Institute “Premises Liability Case Preparation and Trial”, Indianapolis, IN (April 28, 2010)
33. D. Knutson, S. Meyers, D. Curry, and J. Meyer “Applied Aircraft Accident Investigation”, Lewis University, Romeoville, IL (November 19 & 20, 2010)
34. D. Knutson, S. Meyers, and D. Curry “Applied Aircraft Accident Investigation”, Lewis University, Romeoville, IL (March 11 & 12, 2011)
35. D. Sweetin and D.G. Curry “Using an Expert Witness: Why, Who, and How?” National Business Institute “Premises Liability Case Preparation and Trial”, Indianapolis, IN (June 17, 2011)
36. D.G. Curry “Eyewitness Testimony, or Is What They Said, Really What They Saw?” National Business Institute “Premises Liability Case Preparation and Trial”, Indianapolis, IN (June 17, 2011)
37. S. Meyers, D. Knutson, and D. Curry “Human Factors in Aviation”, Lewis University, Romeoville, IL (April 13 & 14, 2011)

PATENTS

1. Patent No. 4,617,015; Rapid Dismount Security Door
2. Patent No. 4,658,931; Evacuated Plenum Hearing Protection
3. Patent No. 6,470,178; Vehicle Radio Having RDS Presets and Methods Therefore
4. Patent No. 6,493,669; Speech Recognition Driven System with Selectable Speech Models

DEFENSIVE PUBLICATIONS (in lieu of patents)

1. Data Transfer Module
2. Steering Loss of Control Limiter
3. Blind Spot Detection Warning
4. Intelligent Cruise Control
5. History-Based Shortest Time Navigation Routing
6. Entertainment System Preset Organization
7. Subsystem Actuation Protection Through Occupant Position Recognition
8. Mechanism for Externally Limiting a Vehicle’s Speed

MISCELLANEOUS

HONORS

- General Motors President's Council Award
- NASA Center of Excellence Fellowship
- Appointment to US Military Academy
- Appointment to US Air Force Academy
- National Merit Scholarship Recipient

SPECIAL INTEREST ITEMS

- Retired Lieutenant Colonel (USAFR); 25 years experience (active and Reserve) with Air Force Research Laboratory
- Technical paper reviewer for the 2004 International Mechanical Engineering Conference (ASME)
- Technical paper reviewer for the 2010 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference (ASME)
- Technical paper reviewer for the Human Factors & Ergonomics Society (HFES) Annual Meetings (2005-2007, 2010)
- Course co-developer and instructor (CIV ENG 395-0 Engineering Forensics) at Northwestern University, Robert R. McCormick School of Engineering and Applied Science, Spring 2006