

Short Curriculum Vita
Dennis K. McBride

Professional Experience (Reverse Order)

2001—Present

President, **Potomac Institute for Policy Studies**, Arlington, Virginia, USA
Non-partisan, not-for-profit, academic think tank, providing expertise to Congress, the Administration, and state government; with specialties in science and technology policy, impact of innovation, the challenges of security
Affiliated Professor, Georgetown University: Public Policy Institute and Medical Center
Teach five courses; supervise graduate research
Adjunct Professor, Virginia Tech
External Professor, Krasnow Institute (Human Biology), George Mason University

1999—2001

Professor (Departments of Psychology, and Industrial Engineering [tenure]), and Executive Director (Dean level), Institute for Simulation and Training, University of Central Florida, Orlando, Florida

1979—1999 Naval Aerospace Experimental Psychologist (AEP #72, 1980--)

[Direct Commission, Medical Service Corps, U.S. Navy, 1979; Retired, CAPT (O-6), 1999]

1997—1999, Program Officer, Biomedical Science and Technology
Naval Medical Research Institute, Bethesda, Maryland and
Office of Naval Research, Arlington, Virginia

1994—1997, Chief Scientist, Modeling and Simulation
Naval Research Laboratory, Washington, DC

1989—1994, Program Manager, Simulation Technology
Defense Advanced Research Projects Agency, Arlington, Virginia

1987—1989, Head, Computer Simulation Branch, Flight Test Officer
Manned Flight Simulator, Naval Air Test Center, Patuxent River, Maryland

1984—1987, Director, Manned Systems Laboratory
Pacific Missile Test Center, Point Mugu, California

1982—1984, Chief, Engineering Psychology Division
Naval Aerospace Medical Research Laboratory, Pensacola, Florida

1980—1982, Project Officer, Aircraft and Crew Systems Division
Naval Air Development Center, Warminster, Pennsylvania

1979—1980, Student Naval Aerospace Experimental Psychologist
Naval Aerospace Medical Institute, Pensacola, Florida

Educational

Ph.D. (1979), M.S. (1978), B.S. (1975) Experimental Psychology, The University of Georgia

Ph.D. M.Phil./ABD (Enrolled 1994--), London School of Economics

M.S. (1987), Systems, University of Southern California

M.S., MPA (1984), Public Administration, Policy, Troy State University

Graduate (1980), Student Flight Surgeon Class, Naval Aerospace Medical Institute

Graduate (1988), Flight Test Engineer Training Program, University of Tennessee Space Institute

Visiting Scholar (1996), Santa Fe Institute (for the study of complex systems)

Past Adjunct Academic Appointments (Teaching, Research Supervision)

Visiting Professor of Modeling and Simulation, University of Central Florida; Instructor, The University of Georgia, Penn State University, Naval Medical Aerospace Medical Institute, University of West Florida, University of South Alabama, University of Denver, St. Mary's College (Maryland)

Professional Certifications

Certification, Professional Ergonomics (CPE; 603, 1993--)

Board of Certification in Professional Ergonomics, Bellingham, Washington

Certification, Professional Modeling and Simulation (CMSP; C00023, 2002--)

M&S Professional Certification Commission, National Training Systems Association

Recent Sponsorship Awards; Principal Investigator; Reviews

National Science Foundation, National Research Council, Central Intelligence Agency, Office of Naval Research, Defense Advanced Research Projects Agency, Department of Homeland Security, National Institute of Standards and Technology, U.S. Coast Guard, Pharmaceutical Industry

Most Recent National Academy of Science, and Similar Leadership

NRC Chair, Panel, Engineering of Complex Systems, Pioneering Revolutionary Technology
Member and Co-Author, NRC Modeling and Simulation Study
Member, NRC Human-Robotic Interfaces Study
American Association for the Advancement of Science Internship Selection Committee (multiple)

Current Academic, Professional Board Appointments

Member, (Scientific) Advisory Council, Atlantic Legal Foundation
Member, Board of Directors, Board of Certification in Professional Ergonomics (2002-2006)
Member, Board of Advisors, Modeling and Simulation Program, Naval Post-Graduate School
Member, Certified Modeling & Simulation Professional Oversight Council
Member, Industrial Advisory Board, Information & Software Engineering, Mason University
Member, Board of Directors, Foundation for Professional Ergonomics
Member, Board of Advisors, Institute for Creative Technology, University of Southern California

Selected Expert Testimony for Legal, Congressional, Administration

Coauthor of *amicus* in case of Mass. v. U.S. EPA for U.S. Supreme Court; Significant Expert Witness testimony for criminal and civil cases (available separately). Defense Advisory Committee on Women in the Services; Scientific preparation for U.S. Supreme Court Case in Casey v. PGA; Senate Armed Services Committee; successful penalty re-disposition of a U.S. felony case

Selected Professional, Academic Awards

Post-Doctoral Research Advisor, National Research Council Associateship Program (1983-)
Co-Author, Best Scientific Article (Fellows), Aerospace Medical Association (1985)
Fourth in Class (Technical Projects), Flight Test Engineer Training Program, UTSI (1988)
Selected as NASA Astronaut Candidate (Mission Specialist), Navy Selection Board (1989)
L.P. Coombes Medal, Australian Institution of Engineers (1994)
Sigma Xi (National Research Society); Psi Chi (Honor Society in Psychology); Phi Kappa Debate
Defense Superior Service Medal, Legion of Merit, Meritorious Service Medal, *inter alia*

Editorial Positions and Reviewerships

Currently: Co-Editor-in-Chief, *Technology*
Editor-in-Chief, *Review of Policy Research* (2002—2005)
Editorial Board, *International Journal of Human Computer Interaction*
Editorial Board, *Theoretical Issues in Ergonomics Science*
Editorial Associate, *Behavior and Brain Sciences*
Periodic Reviewer: *Politics and the Life Sciences*, *International Journal of Industrial Ergonomics*, *Human Factors and Ergonomics*, *Journal of Sex Research*

Scientific and Technical Publications, Presentations to Learned Societies; Patents

Over 125 in Psychology, Economics, Public Policy, Medical Science, Engineering

Selected Publications, Old and New (not updated since early 2005)

Experimental and Differential Psychology

McBride, D. K. and Payne, R. B. Psychomotor reminiscence as a function of sex and length of rest period. *Journal of Motor Behavior*, 1979, 11, 59-64.

McBride, D. K. and Payne, R. B. (1980) The sex difference in rotary pursuit performance: Aptitude or inhibition? *Journal of Motor Behavior*, 12, 270-280.

McBride, D. K. and Payne, R. B. (1979) Reactive inhibition theory and intertrial correlations. *Journal of Motor Behavior*, 11, 253-259.

McBride, D.K. (1998) Individual differences in the performance of highly learned skill. *Perceptual and Motor Skills*, 86, 985-986.

McBride, D.K. & Schmorow, D.D. (Eds.) (2005) *Quantifying Human Information Processing*. New York: Rowman & Littlefield.

McBride, D.K. (2005) The quantification of human information processing. In McBride, D.K. & Schmorow, D.D. (Eds.) *Quantifying Human Information Processing*. New York: Rowman & Littlefield.

Ergonomics and Other Engineering

McBride, D.K., Lambert, J.V., Murray, D. & Hitchcock, L. (Eds.) (1982) *Design for Maintainers*. Johnsville, PA: Naval Air Development Center.

Mulligan, B. E., Goodman, L. S., McBride, D. K., et al. (1984) *Human Engineer's Guide to Auditory Displays, Volume I: Elements of Perception and Memory Affecting Auditory Displays; Volume II: Elements of Signal Reception and Resolution Affecting Auditory Displays*. Orlando, FL: NTEC Publications.

McBride, D. K., Lambert, J.V., and Lane N. E. (1985) The development of a standardised, computer-based abbreviation algorithm. *Behaviour and Information Technology*, 4 (3), 239-247.

McBride, D.K. (2000) Provision of enabling technology in professional sports. *Perceptual and Motor Skills*, 90, 1219-1230.

McBride, D.K. et al. (2003) Engineering for complex systems. In National Research Council, *Review of NASA's Aerospace Technology Enterprise: An Assessment of NASA's Pioneering Revolutionary Technology Program*. Washington: National Academies Press.

Schmorow, D. & McBride, D. (Guest Editors) (2004) Augmented cognition. *International Journal of Human-Computer Interaction*. 17 (2), 127-290.

Schnorow, D. & McBride, D. (2004) Introduction to augmented cognition. *International Journal of Human-Computer Interaction*. 17 (2), 127-130.

McBride, D.K., Sheldon, E. & Franceschini, R. Patent application: *Affective computer generated forces*. USPO Ser. 10/133,845, pending.

Training Science and Technology

McBride, D.K. (1993) Odin. In, Seidel, R.J. and Chatelier, P.R. (Eds.), *Advanced Technologies Applied to Training Design*. New York: Plenum.

Funk, S. and McBride, D.K. (2000) Training in the twenty-first century. In, Tobias, S. and Fletcher, D. (Eds.), *Training and Retraining*. New York: Plenum.

Medical Sciences

Houghton, J. O., McBride, D. K., and Hannah, K. (1985) Performance and physiological effects of acceleration-induced (+Gz) loss of consciousness. *Aviation, Space and Environmental Medicine*, 56, 956-965.

Kopke, R.D, *et al.*, and McBride, D.K. (2000) Reduction of noise-induced hearing loss using L-NAC and salicylate in the chinchilla. *Hearing Research*, 149, 138-146.

Dobie, T., McBride, D., Dobie, T. Jr., and May, J. (2001) Effects of age and sex on susceptibility to motion sickness. *Aviation, Space, and Environmental Medicine*, 72 (1), 13-20.

Javitt, J.C., Ginsburg, A.P., Paggiarino, D.A., McBride, D.K. and Matson, W. (In press) Improved driving ability with prolate-surface intraocular lens implantation: Technical results and public policy implications. *Journal of Cataract and Refractive Surgery*.

Javitt, J., McBride, D., et al. (In press) Wavefront-corrected intraocular lenses associated with significantly improved night driving ability in elderly patients. *Journal of the American Academy of Ophthalmology*.

Economics, Public Policy

McBride, D.K. (1998) In the land of the blind, the one-eyed man is king: A review of cognitive economics. *Complexity*, 4 (2), 32-35.

McBride, D.K., Worcester, L.L., and Tennyson, S.L. (1999) Women's athletics and the elimination of men's sports programs: A reevaluation. *Cato Journal*, 19 (2), 323-330.

McBride, D.K., Fogel, G., and Garrett, R.L. (2001) Bio-cyber terrorism. In Alexander, A. and Swetnam, M. (Eds.), *Cyber Terrorism and Information Warfare*. Ardsley, New York: Transnational.

McBride, D.K. (2003) Balance between privacy and security: Not new but never more important. *The Officer*, 79 (5), 17-19.

McBride, D.K. (2003) Modeling and simulation for biological terrorism. In Siegrist, D. and Tennyson, S. (Eds.), *Technologically Based Biodefense*. Arlington: Potomac Institute for Policy Studies Press.

Scientific, Technology Works Highlighted by Media (inter alia)

Chronicle of Higher Education; Omni; New York Times; Washington Post;
Radio New Zealand; Radio Network International; Canadian Broadcasting Corporation;
To Your Health; New Scientist; Business Week; Los Angeles Times;
ABC News; UPI; National Defense; Baltimore Sun; Macon Telegraph and News;
Orlando Sentinel; Artificial Intelligence; Health; Prevention; Defense News Network; Navy Times; Army Times