

WILLIAM R. "MIKE" SCOTT, PHD

CURRICULUM VITAE

EDUCATION AND CERTIFICATIONS

Ph.D.	Engineering Science State University of New York (SUNY) Buffalo, New York	1980
M.S.	Engineering Science State University of New York Buffalo, New York	1977
B.S.	Engineering Science State University of New York Buffalo, New York	1971

POST GRADUATE STUDIES

Post Graduate Studies	National Institute of Health (NIH) Research Fellowship Department of Physiology State University of New York Buffalo, New York	
Graduate	Traffic Accident Reconstruction Northwestern University Traffic Institute Evanston, Illinois	1990

PROFESSIONAL EXPERIENCE

Principal Consultant Biodynamic Research Corporation San Antonio, Texas	1989-Present
Research Engineer KRUG International San Antonio, Texas	1987-1989

Manager of Engineering Test Laboratory Scott Aviation Lancaster, New York	1985-1987
Assistant Professor King Abdullaziz University Jeddah, Saudi Arabia	1983-1985
NIH Post-Doctoral Fellow Department of Physiology SUNY at Buffalo Buffalo, New York	1980-1982
Teaching/Research Assistant Engineering Science Department SUNY at Buffalo Buffalo, New York	1974-1980
Engineer Ford Motor Company Dearborn, Michigan	1973-1974
Teaching Assistant Engineering Science Department SUNY at Buffalo Buffalo, New York	1971-1972

HONORS AND AWARDS

National Institute of Health Research Fellowship Member, Tau Beta Pi Engineering Honor Society	1980
Graduated Cum Laude	1971
New York State Regents Scholarship	1967

PUBLICATIONS AND PRESENTATIONS

THESES AND DISSERTATIONS:

Scott, W.R.; The Effect of Intrapulmonary Ventilation Differences on Gas And Aerosol Transport in the Lung. Doctoral Dissertation, State University of New York at Buffalo, School of Engineering, Buffalo, New York, 1980.

Scott, W.R.; A Theoretical Model of Aerosol Deposition in the Nasal Passages, Master's Thesis, State University of New York at Buffalo, School of Engineering, Buffalo, New York, 1976.

OTHER PUBLICATIONS:

Scott, W.R., D.B. Taulbee, and C.P. Yu. "Theoretical study of nasal deposition." Bull. Math. Biol. 40:581-603, 1978.

Scott, W.R., and D.B. Taulbee. "Ventilation distribution in the lung over the breathing cycle due to the gravitational pressure gradient." Proc. First Mid-Atlantic Conf. on Bio-Fluid Mechanics, Virginia Polytechnic Institute and State University, Blacksburg, VA, Aug 9-11, 1978.

Scott, W.R., and H.D. Van Liew. "Measurement of lung emptying patterns during slow exhalations." J. Appl. Physiol.: Respirat. Environ. Exercise Physiol. 55(6):1818-1824, 1983.

Scott, W.R. and D.B. Taulbee. "Aerosol deposition along the vertical axis of the lung." J. Aerosol. Sci. 16(4): 323-333, 1985.

Scott, W.R., and R.E. Simpson. "Evaluation of collective protection shelter systems." 25th Annual SAFE Symposium, pp. 34-40, Las Vegas, Nevada, 1987.

Scott, W.R., and R.E. Simpson. "The Application of Anthropometric Data to the Sizing of Aircrew Pressure Protective G-garments." 26th Annual SAFE Symposium, pp. 40-45, Las Vegas, Nevada, 1988.

Scott, W.R., and R.E. Simpson. Relationship Between the Amount of Methyl Salicylate Offgassed by Subjects in Sealed Booths and the Vapor Levels Measured in the Booths. Technical Report USAFSAM-TP-89-3, U.S.A.F. School of Aerospace Medicine, 1989.

Scott, W.R., and R.E. Simpson. An Evaluation of the Vapor Protection Capabilities of the M-17 Mask/Hood Assembly of the USAF Ground Crew CDE. Technical Report USAFSAM-TR-89-15, U.S.A.F. School of Aerospace Medicine, 1989.

Scott, W.R., and R.E. Simpson. Comparison of Vapor Transfer Associated with Collective Protection Entry of Subjects Wearing an Aircrew Chemical Defense Ensemble (CDE) Based on the CWU-66/P Flight Suit and the USAF Regulation Aircrew CDE. Technical Report USAFSAM-TP-89-16, U.S.A.F. School of Aerospace Medicine, 1989.

Scott, W.R. An Evaluation of the Vapor Protection Capabilities of the Jacket/Trouser Interface on the Regulation Ground Crew CDE. Technical Report USAFSAM-TP-89-13, U.S.A.F. School of Aerospace Medicine, 1989.

Raddin, J.H. Jr., M.D., Scott, W.R., Ph.D., J. Ziegler, M.S.E., J.V. Benedict, Ph.D., M.D.; and H.L. Smith, Ph.D., M.D. Concept Feasibility Analysis for a Large Radius Track-Centrifuge, Final Report for research conducted under U.S.A.F. Small Business Innovation Research Contract #F41622-89-C-1025. Technical Report USAFSAM-TP-90-3, U.S.A.F. School of Aerospace Medicine, June, 1990.

Raddin, J.H. Jr., M.D., Scott, W.R., Ph.D., J.B. Bomar, Jr., Ph.D., H.L. Smith, Ph.D., M.D., J.V. Benedict, Ph.D., M.D., W.E. McConnell, M.D., P.K. Perret, H.M. Guzman. Adapting the Adam Manikin Technology for Injury Probability Assessment, Final Report for research conducted under U.S.A.F. Small Business Innovation Research Contract, Submitted for publication as U.S.A.F. School of Aerospace Medicine Technical Report, February, 1992.

Scott, M.W., McConnell, W.E., Guzman, H.M., Howard, R.P., Bomar, J.B., Smith, H.L., Benedict, J.V., Raddin, Jr., J.H., and Hatsell, C.P. - "Comparison of Human and ATD Head Kinematics During Low-speed Rear-end Impacts." Presentation to Society of Automotive Engineers, Inc., 1993 SAE International Congress & Exposition, Detroit, MI, SAE Paper #930094, March 1993.

"Rollover Research on Injury Mechanisms"; Invited Lecturer, Vehicle Rollovers TOPTEC: An Update of the Current Issues; Society of Automotive Engineers, Dearborn, Michigan, August 1993.

Bomar, J.B., Scott, M.W., Smith, D.A., "Modeling Respiratory Gas Dynamics in the Aviator's Breathing System." USAF Materiel Command Technical Report AL/CF-TR-1994-0047-Vol. 1, May 1994.

Scott, M.W., Labra, J.J., Guzman, H.M., Benedict, J.V., Smith, H.L., Ziegler, J., "Injury Analysis of Impacts Between a Cage-Type Propeller Guard and a Submerged Head." SAFE Journal, Vol. 24 #3, October 1994.

"Auditory and Visual System Injury Potential with Airbag Deployment"; Presentation to Society of Automotive Engineers Airbag Design and Performance TOPTEC, Costa Mesa, CA. August 14-15, 1997.

Scott, W.R., Lloyd, W.C., Benedict, J.V., Meredith, R. "Ocular Injuries Due to Projectile Impacts"; Presentation to Association for the Advancement of Automotive Medicine Annual Conference, Chicago, Illinois. October 1-4, 2000.

Benedict, J.V., Hiltner, E. and Scott, W. Child Dummies and Injury Criteria, Where are we? Presentation at the "Booster Seats for Children" Conference Sponsored by AAAM, April 23-24, 2001, Washington, D.C.

Scott, W.R., Bain, C. Manoogian, S.J., Cormier, J.M., and Funk, J.R.- "Simulation Model for Low-Speed Bumper-to-Bumper Crashes." SAE International Congress & Exposition, Detroit, MI, SAE Paper #2010-01-0051, April 2010.