

Curriculum Vitae

Harrison Philip Crowell, III

Education

Master of Science in Biomedical Engineering, New Jersey Institute of Technology, May 1990.

Bachelor of Science in Mechanical Engineering, University of Pittsburgh, April 1983.

Experience

December 1990 to Present Mechanical Engineer, U.S. Army Research Laboratory, Human Research and Engineering Directorate.

January 1988 to June 1990 Research Assistant and Teaching Assistant, New Jersey Institute of Technology.

May 1983 to June 1987 Mechanical Engineer, Naval Surface Warfare Center.

Publications

Open Literature:

Harrison Philip Crowell, Clare E. Milner, Irene S. Davis, and Joseph Hamill. (2005). Short-term retention of gait changes after real-time feedback to reduce tibial shock. *Medicine & Science in Sports & Exercise*, 37 (5), Supplement, S346.

Robert J. Butler, Harrison Philip Crowell, and Irene M. Davis. (2003). Lower extremity stiffness: implications for performance and injury. *Clinical Biomechanics*, 18 (6), 511-517.

Joseph J. Knapik, William Harper, Harrison Philip Crowell, Kathy Leiter, and Bradley Mull. (2000). Standard and alternative methods of stretcher carriage: performance, human factors, and cardiorespiratory responses. *Ergonomics*, 43(5), 639-652.

Harrison P. Crowell, III. (1991). Three dimensional analysis of an ankle prosthesis. *Innovation et Technologie en Biologie et Medecine*, Vol. 12, No. 1, 1.

Government:

Harrison P. Crowell, III, Angela C. Boynton, and Michael Mungiole, Exoskeleton Power and Torque Requirements Based on Human Biomechanics, ARL-TR-2764, 2002.

Harrison P. Crowell, III, Andrea S. Krausman, William H. Harper, Jim A. Faughn, Marilyn A. Sharp, Robert P. Mello, Ty Smith and John F. Patton, Cognitive and Physiological Performance of Soldiers While They Carry Loads Over Various Terrains, ARL-TR-1779, May 1999.

Joseph J. Knapik, William H. Harper, Harrison P. Crowell, III, Kathy L. Leiter, and Bradley T. Mull, Engineering Redesigns For Human Stretcher Carriage: Performance, Human Factors, and Cardiorespiratory Responses to Standard and Alternative Methods, ARL-TR-1596, January 1998.

Harrison P. Crowell, III, Design of the Stop Plate and Stop Bolt for the Uniport, ARL-TN-84, December 1996.

Harrison P. Crowell, III, Teresa A. Treadwell, Jim A. Faughn, Kathy L. Leiter, Arthur A. Woodward, and Charles E. Yates, Lower Extremity Assistance For Parachutist (LEAP) Program: Quantification Of The Biomechanics Of The Parachute Landing Fall And Implications For A Device To Prevent Injuries, ARL-TR-926, November 1995.

Harrison P. Crowell, III, Human Engineering Design Guidelines For A Powered, Full Body Exoskeleton, ARL-TN-60, July 1995.

Patents and Inventions

Patent number 5,675,915-- Impact Absorbing Soles for Parachutists, granted 14 October 1997.