



About Us

Undergraduate Programs

Graduate Programs

People

Research & Facilities

News & Events

Student Resources

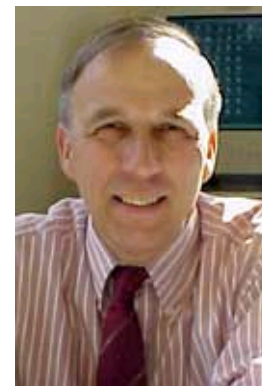
About WPI

Search:

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Related Information

- [Teaching, Research, & Advising Interests](#)

Education

- B.S. Mechanical Engineering, Worcester Polytechnic Institute, 1963
- M.S. Mechanical Engineering, Worcester Polytechnic Institute, 1967
- Ph.D. Mechanical Engineering, University of Colorado, 1970

Publications

- A. H. Hoffman, H. K. Ault, R. Catricala, G. M. Rabideau, S. Kohn, and J. Ripley, "Development of a Prototype Bumper System for Powered Wheelchairs", Proceedings of the RESNA 2000 Conference, p. 468-470, 2000.
- A. H. Hoffman, H. K. Ault, C. Demetry, and D. W. Nicoletti, "Teaching Disability Awareness and Universal Design to Middle School Students", Proceedings of Designing for the 21st Century II: An International Conference on Universal Design, Vol. 5, p. 10-12, 2000, www.adaptenv.org/21century/proceedings5.asp
- B. J. Savilonis, A. H. Hoffman, and E. Rusk, "In Vitro Measurement of Arterial Compliance of Porcine Aortic Tissue", Proceedings of the IEEE 26th Annual Northeast Bioengineering Conference, p. 47-48, 2000.
- T. Zand, A. H. Hoffman, B. J. Savilonis, J. M. Underwood, J. J. Nunnari, G. Majno, and I. Joris, "Lipid Deposition in Rat Aortas with Intraluminal Hemispherical Plug Stenosis - A Morphological and Biophysical Study", American Journal of Pathology, Vol. 155, p. 85-92, 1999. This paper received recognition from the editor of the journal. In an editorial commentary entitled "Vascular Endothelium, Hemodynamic Forces and Atherogenesis", Michael Gimbrone described the significance of our work.
- S. Han, S. J. Gemmell, K. G. Helmer, P. Grigg, J. W. Wellen, A. H. Hoffman, and C. H. Sotak, "Changes in ADC Caused by Tensile Loading of Rabbit Achilles Tendon: Evidence for Water Transport", Journal of Magnetic Resonance, Vol. 144, 217-227, 2000.

[Extended Publications Listing](#)

Honors and Awards

- 1989 WPI Trustees Award for Outstanding Scholarship
- 1988 Kappa Delta Award from the American Academy of Orthopaedic Surgeons for outstanding orthopaedic research
- 1980 WPI Trustees Award for Outstanding Teaching

Scientific and Professional Societies/Memberships

- American Society of Mechanical Engineers
- American Society for Engineering Education
- American Academy of Mechanics
- Society of Sigma Xi

