

Name: Richard D. Rabbitt

Location: University of Utah. Salt Lake City, UT. USA

Titles: Professor of Biomedical Engineering. Adjunct Professor of Otolaryngology. Faculty of the Interdepartmental Neuroscience Program

Education: 1980. BS Mechanical Engineering, Michigan State University
1982. MS Mechanical Engineering, Michigan State University
1986. PhD Applied Mechanics, Rensselaer Polytech. Institute
1987. Post-Doc. Applied Mathematics, Dr. M. Holmes RPI
1993. Computational Neuroscience, Marine Biological Laboratory
1994. Electrophysiology, Marine Biological Laboratory

Selected Service: 2025-. Board, Vestibular Oriented Research Organization
2022. Awards Committee, ARO
2004-2001. BME Dept. Chair, Univ. Utah
1998-2004. Director Graduate Studies, Univ. Utah

Teaching. I am an active teacher with experience spanning 30+ years at 4 institutions. I currently teach graduate courses directly related to the ARO in Biofluid Mechanics and Comparative Hearing, and Bioacoustics, alternating topics each year. I also teach a large undergraduate course in Biotransport every year covering pharmacokinetics, electrochemical diffusion, molecular separation and convective transport. Previously, I taught courses in biophysics, biomechanics, vibrations, acoustics, sound-structure interactions, thermodynamics, differential equations, computational neuroscience and other areas.

Research Interests: My research portfolio is diverse and includes publications in cellular biophysics, acoustics, biomechanics and anatomical shape modeling. I routinely present research results at Midwinter Meeting of the ARO primarily on biomechanics and neurophysiology of vestibular organs, and on outer hair electromechanics and cochlear mechanics. I am honored that my vestibular research was recognized in 2014 by the Bárány Society through award of the *Hallpike-Nylen Medal and Prize* (e.g. BPPV, Tullio phenomena, canal plugging, ultrasound/infrared vestibular stimulation, vestibular biomechanics, vestibular coding). I also have a deep interest in cellular biophysics which has driven my research on electro-mechanical power conversion by outer hair cells. For example publications: <https://scholar.google.com/citations?user=0cP5UPoAAAAJ&hl>.

Statement of Goals. I have been an active member of the ARO for decades and my career has benefitted tremendously from the comradery and collegial atmosphere fostered by the association. I feel it's time for me to give back to the ARO through administrative effort. My status as an active Principal Investigator and previous experience as Chair of a large academic department have prepared me to contribute as ARO Secretary Treasurer and to serve as liaison for the Finance and Investment

Committee. If elected, I am prepared to devote the time and effort required for responsible management of ARO resources.