



Dr. Danielson leads a NASA program aimed at preventing noise-induced hearing loss (during spaceflight and ground-based missions) among NASA's astronauts, pilots, and other employees. He collaborates with international partners towards resolution of acoustic issues (such as risks of hearing loss, habitability, alarm audibility, speech intelligibility, and hearing protective device options) on the International Space Station (ISS) and future NASA habitats. Dr. Danielson is a consultant to Johnson Space Center's Flight Medicine Clinic and Medical Operations Office regarding hearing health of astronaut crewmembers, including data collection and analyses from On-Orbit Hearing Assessments conducted on the ISS, as well as flight operations other than space.



Dr. Wood's research is focused on the adaptation of balance function and spatial orientation to altered sensory environments, such as space flight, as well as enhancing the diagnosis and rehabilitation of vestibular-related clinical disorders. His laboratory at NASA is focused on the neural mechanisms and operational implications of disorientation and tilt-translation disturbances reported by crewmembers during and following re-entry. In several of his current studies, he is examining the use of sensory aids (e.g., vibrotactile feedback) as countermeasures to improve spatial orientation and manual control performance for pilots and as balance prosthetics for patients. Dr. Wood joined JSC's Division of Space Life Sciences in 2004 as a scientist in the Neurosciences Laboratory, Human Adaptation and Countermeasures Division.