

Biography for Douglas Hamilton

Dr. Hamilton is a Flight Surgeon for Wyle Life Sciences at NASA Johnson Space Center supporting the Shuttle and Space Station Operations. Dr. Hamilton completed a B.Sc. in Electrical Engineering in 1980 at the University of Alberta, Canada, specializing in digital control systems and laser plasma physics. He received his M.Sc. in Electrical Engineering in 1983 at the University of Alberta designing medical laser systems for surgery and photo-chemotherapy. He has been a practicing professional engineer for 25 years and is professionally certified in Canada and United States. He is board certified and licensed in Internal Medicine in Canada and United States and is on faculty at Baylor College of Medicine. Dr. Hamilton received his Ph.D. in Cardiovascular Physiology in 1992 at the University of Calgary, Canada. He received USAF flight surgeon wings in 1998 and attended International Space University (ISU) in the faculty of Life Sciences in 1992 in Japan. Dr. Hamilton has taught at ISU (1996-2009) in the area Operational Space Medicine, Bone and Muscle Physiology, Cardiovascular Physiology and Life Support Systems. In his current position at Johnson Space Center Dr. Hamilton develops medical hardware and procedures to support short and long duration space missions. Dr. Hamilton has supported numerous Shuttle and Space Station missions on console and is the Deputy Flight Surgeon for ISS Expedition 20. He has participated in many human and animal research parabolic flights in the United States and Russia. Dr. Hamilton has several journal publications in the area of Cardiovascular Physiology, Telemedicine and Space Medicine.