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SPACE MEDICINE

One Page BioSketch: Graham B.I. Scott, Ph.D.

Graham Scott has a somewhat unique combination of military aviation, academic, research & development, (i.e. both “large scale science” and new product introduction), and business experience - compiled over the last 30 years.

As a young man, Graham was a military pilot and commissioned officer, (Flight Lieutenant) in her Majesty’s Royal New Zealand Air Force, (RNZAF) where he flew pure jets, turbo-prop transport aircraft, and search and rescue fixed wing aircraft.

After completing 9 years of military service, Graham next embarked upon the academic phase of his career – where he gained a Ph.D. in chemistry at the University of Canterbury in Christchurch, New Zealand, studying ion-molecule and ion-atom reactions that elucidate the astro-chemistry of interstellar clouds. He was then fortunate to be afforded the opportunity to move to the United States and work as a Post-Doctoral Fellow at Rice University in Houston, Texas with Dr. Robert F. Curl , who is the 1996 Nobel Laureate in Chemistry. Dr. Curl was awarded the Nobel Prize for his seminal discovery of the carbon fullerenes, e.g. C₆₀, C₇₀ that led the establishment of nanotechnology as a scientific discipline. This experience of working directly with a Nobel Laureate was a truly formative experience that impressed upon Graham the imperative of always insisting upon the highest standards of scientific inquiry and research.

Then during the climatic and high-profile years of the Human Genome Project, (2000 - 2003) Graham worked as an Assistant Professor at the Baylor College of Medicine Human Genome Sequencing Center, (BCM-HGSC) under the direction of Dr. Richard Gibbs - and gained a world class education in sequencing technologies and leading large interdisciplinary scientific teams. During his tenure at the BCM-HGSC – Graham participated in large scale scientific endeavors that resulted in the publication of six Nature papers.

In late 2003, following the completion of the Human Genome Project, Graham took the decision to move to the Life Sciences industry – initially as a Research and Development Manager at Sigma Aldrich Corporation in St Louis – where he managed a team of 22 scientists who worked to develop products for proteomics researchers. After almost 3 years with Sigma-Aldrich Corporation Graham then moved to EMD Biosciences where he took on a business leadership role – before he was invited by one of his mentors to move to Agilent Technologies and lead a large R&D organization comprising almost 70 scientists and engineers.

Immediately prior to joining the National Space Biomedical Research Institute, Graham was employed by Life Technologies in a number of senior sales and marketing Leadership roles – including over the period 2011 - 2012, having global responsibility for marketing Life Technologies’ portfolio of sequencing systems.

Graham is very well networked to a number of high profile thought leaders working within the sequencing and proteomics spaces at various universities across the globe – and is also connected to multiple senior "C" level executives at several major life science tools companies.

Dr. Scott has now been the Vice President, Chief Scientist and Institute Associate Director at the National Space Biomedical Research Institute, (NSBRI) since October of 2012. In addition to leading the Science Office and overseeing the Education activities of the Institute - he has been spearheading an effort to introduce personalized genomic medicine as a strategy for development of new countermeasures, to better safeguard astronaut health.