



Lichfield Science & Engineering Society

LICHFIELD **GARRICK**
Theatre & Studio

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8:00 pm on Tuesday, 13th March 2018
in the Studio Theatre of the Lichfield Garrick, Lichfield, WS13 6HR

SPACE TRAVEL

and its Effect on Human Physiology and Psychology

Dr Martin Braddock

Global Products Manager and Global Alliance Manager,
Global Medicines Development - Respiratory Disease,
AstraZeneca

The adverse effects of prolonged exposure to microgravity can be predicted by observations in astronauts and animals on short duration space flight. Long term space travel to Mars and beyond will demand countermeasures to microgravity habitation and theoretically the most promising is living in an environment in the presence of simulated or artificial gravity. This talk will review the effects of microgravity on the human body and describe features of the international roadmap for artificial gravity research which was published in November 2017.

Martin Braddock is a professional scientist and project manager working in the field of drug discovery and development with 34 years experience of working in academic institutes and large corporate organisations. He holds a BSc in Biochemistry and a PhD in Radiation Biology, is a former Royal Society University Research Fellow at the University of Oxford and is a fellow of the Royal Society of Biology. Martin has published extensively and is a member of several scientific advisory boards.

Martin is passionate about all aspects of Astronomy, Cosmology and Astrobiology and is enrolled on the Open University's MSc degree in Space Sciences and Technology. He is a member of the Mansfield and Sutton Astronomical Society and was elected a Fellow of the Royal Astronomical Society in May 2015. He is interested in the effects of gravitational extremes on physiology and the development of space medicine.

For further information, please see our website at www.LSES.org.uk
Students and Members Free.

Visitors £5.00. Tickets are not issued in advance, please pay at the door.

Members must sign in. Those signing in before 7:50 pm will have precedence over all visitors.

This lecture is expected to finish by 10.00 pm.