

4th UK SPACE BIOMEDICINE CONFERENCE 2009
Downing College, University of Cambridge, UK

7th November 2009



Welcome

Introduction and a Tribute to Prof J. Ernsting OBE

Dr Gihan Ganesh BSc(Hons) MBBS
Chairman, UKSBA Conference 2009

BEST OF BRITISH

“Recruitment of Key Stabilizer Muscles Using a New Exercise Device – Towards a More Effective Stabiliser Training for Astronauts”

Dr Dorothee Debus BSc (Hons), PhD
ESTEC Topical Team Lead on Stabiliser Training/Senior Lecturer Physiotherapy, Northumbria University

“Astrobiology: The Search for Life Beyond Earth”

Dr Lewis Dartnell BA(Hons), Mres, PhD
Astrobiology Researcher, University College London

“Muscle Wasting and Weakness in Simulated Microgravity”

Prof Marco Narici MSc, PhD
Professor in Physiology of Ageing, Institute for Biomedical Research into Human Movement, Manchester Metropolitan University

“Reproduction in Space – The Role of Gravity in Embryogenesis”

Dr Catherine Aitken BA MA(Cantab) MB ChB
Senior House Officer, Addenbrooke’s Hospital, Cambridge

INTERNATIONAL ADVANCES

“Space Medicine Coordination – A European Perspective”

Dr Simon N Evetts, BA(Hons), PG Cert, MSc, PhD
Medical Projects & Technology Unit Lead, Crew Medical Support Office, European Astronaut Centre

“Basic Life Support in simulated Microgravity: Evaluation of a Novel Method and Perceived Exertion During External Chest Compressions”

Mr Lucas Rehnberg BSc(Hons), MSc
King’s College London/PUCRS

“NASA’s Future Human Spaceflight Program – Project Constellation: and Ground Operations Projects”

Dr Philip Scarpa MSc MD
Flight Surgeon, Constellation Programme, NASA

“Concordia Station: A Mission to Mars via Antarctica”

Dr Alex Salam DiMM MRCP
*Research MD in Human Biology and Medicine, European Space Agency
LIVE from Concordia Station, Antarctica*

THE FUTURE OF SPACE EXPLORATION

“Astronautical Hygiene - Application to Protect Astronaut’s Health”

Dr John R Cain PhD, MSc, MBA, CBiol, FIBiol, FBIS, MFOH Dip OH
HM National Specialist Inspector (Health Risk Management), Health and Safety Executive

“Exploring the Human Mind: Mission to Mars”

Dr Iya Whiteley, MClinPsy, PhD, MRAeS,
Human Factors/Cognitive Psychologist at European Astronaut Centre, ESA

“Commercial Space Flight: Challenges and Opportunities”

Dr Vernon McDonald, PhD
Wyle Laboratories, Houston

“MarsTechcare – Biomedical Technologies for Crew Health on Long Missions”

Dr Patrick Magee MSc FRCA
Consultant in Anaesthesia, Royal United Hospital, Bath and Visiting Lecturer, Mechanical Engineering, University of Bath

GET INVOLVED

“ESA Astronaut Selection” (Key Note Speech)

Dr Gerhard Thiele, PhD
Head of European Astronaut Division, ESA

“NASA Kennedy Space Centre Elective”

Dr Emma-Jane Smith, BSc MBBS
Kennedy Space Centre Elective Co-ordinator

“The Vomit Comet: Parabolic Flight Campaigns”

Dr George Evetts BSc MBBS
Anaesthetics, Medical Officer, Royal Air Force

“International Organisations in Space Biomedicine”

Ms Daniela Petrova
Secretary, UKSBA

“Flights of fancy – Aviation/Aerospace courses at King’s College London”

Dr David A Green, PhD
Lecturer of Human Cardiorespiratory and Aerospace Physiology, King’s College London

Closing Remarks