

3rd UK SPACE MEDICINE DAY

Saturday 30th September –
Sunday 1st October, 2006

National Space Centre, Leicester



Annual Meeting of the
UK Space Biomedicine Group

Supported by the Aerospace Medicine Association
And Space Medicine Association

CME/CPD Credits Awarded

REGISTRATION INFORMATION

NAME

ADDRESS

.....

.....

D.O.B.

PHONE

E MAIL

In order to help organise future events, we would be grateful if you could answer the following two questions. Thank you.

What is your job/area of study?

.....

Where did you hear about this meeting?

.....

Fees include lunch and coffee breaks, and free admission to the National Space Centre.

2 Day Admission: £145 (£75 students)

1 Day Admission: £99 (£50 students)

If 1 Day Admission, please circle day you wish to attend:

SATURDAY

SUNDAY

Do you wish to come along to the conference dinner on Saturday night?

YES/NO

I enclose a cheque payable to 'UK SPACE MEDICINE'.

Signed:.....

Please return this form to:

Dr Alyson Calder
Flat 3/1
8 Caird Drive
Glasgow
G11 5DS

alysoncalder@doctors.org.uk

SATURDAY 30th SEPTEMBER

0800 - 0845 Registration
0845 - 0900 Welcome, Dr Alyson Calder, Conference Organiser

PANEL 1: SPACE MEDICINE ACTIVITIES

Chair: Dr Patrick McGee

0900 - 0930 Space Medicine in the UK
Dr Kevin Fong BSc MBBS MRCP FRCA
Anaesthetist, Honorary Space Physiology Lecturer, Co-Director Centre for Aviation and Space Medicine, University College London

0930- 1000 Space Medicine Support of European Astronauts
Dr Simon N Evetts BA (Hons) MSc PhD, Space Medicine Advanced Projects Lead, Wyle Laboratories GmbH, European Astronaut Centre, Germany

1000 - 1015 Questions and Discussion

1015 - 1045 COFFEE

PANEL 2: FLUIDS IN MICROGRAVITY

Chair: TBA

1045 - 1115 Posture, pressure and pore size: Standing up to gravity
Dr Frank Prior, Director, The Osmosis Unit, Longniddry, Scotland and Dr Richard JE Skipworth BSc (Hons) MBChB MRCSEd, Clinical Research Fellow, Tissue Injury & Repair Group, University of Edinburgh

1115 - 1145 Intravenous Fluids in Space: an Update on British work with NASA
Dr Victoria Wykes MBBS PhD BSc, FY2 Neurology, Queens Square and Royal Free Hospital, London. Centre for Aviation and Space Medicine, University College London.

1145 - 1200 Questions and Discussion

1200 - 1330 LUNCH, NATIONAL SPACE CENTRE VISIT

PANEL 3: INTERNATIONAL SPACE MEDICINE OPPORTUNITIES

Chair: Dr Vishal Nangalia

1330 - 1430 Panel on international activities and opportunities in space medicine.

A Troubled Sleep- The Flight of CASPER Aboard the ISS
Dr Marc O Grafia

Further international speakers to be announced.

1430 - 1445 Questions and Discussion

1445 - 1515 COFFEE

PANEL 4: SPACE RESEARCH TOPICS

Chair: TBA

1515 - 1545 Space Radiation Research at NASA-KSC
Dr Phil Scarpa MD MS, Medical Operations Manager, NASA-Kennedy Space Center, Florida

1545 - 1615 Musculoskeletal adaptations to disuse and ageing
Dr Marco V. Narici
Institute for Biophysical and Clinical Research into Human Movement, Manchester Metropolitan University

1615 - 1645 The Mars Gravity Biosatellite: Instrumentation Design Philosophy
Thaddeus R. F. Fulford-Jones BA (Hons, Harvard) , MSc (Harvard), MIET. PhD Candidate, MIT Department of Aeronautics and Astronautics.

1645 - 1700 Questions and Discussion

1700 CLOSE

Evening Conference Dinner

SUNDAY 1st OCTOBER

PANEL 5: FUTURE SPACE ISSUES

Chair: Dr Ben Douglas

0900 - 0930 "Doctor/Geomicrobiologist required" - A new type of job spec for a Space-faring society?
Professor Charles Cockell, Professor of Microbiology, Planetary and Space Sciences Research Institute, Open University, Milton Keynes

0930- 1000 Surgical Care in Space
Mr Mark Campbell, General Surgeon, Paris Regional Medical Center, Texas. President Elect, Space Medicine Association

1000- 1030 Health Threats in Human Spaceflight
Dr Jonathan B. Clark MD, MPH. President, Space Medicine Association and Space Medicine Liaison, National Space Biomedical Research Institute, Houston, Texas.

1030 - 1045 Questions and Discussion

1045 - 1115 COFFEE

PANEL 6: CARDIOPULMONARY RESUSCITATION ON THE MOON, MARS AND IN MICROGRAVITY

Chair: Dr Simon Evetts

1115 - 1125 Introduction to Cardiopulmonary Resuscitation in Non-terrestrial Environments
Dr Simon N Evetts BA (Hons) MSc PhD, Senior Lecturer Exercise Sciences, Thames Valley University. Space Medicine Advanced Projects Lead, European Astronaut Centre, Germany

1125 - 1135 The Body Suspension Device as a Hypogravity and Microgravity Simulator
Professor Thais Russomano
Microgravity Laboratory, Brazil and Visiting Professor, Kings College London

1135 - 1145 Gender Differences in Cardiac Massage Performance during Hypogravity Simulation

Dr Alyson Calder MBChB BSc MRCP(UK)
Anaesthetics Senior House Officer, Glasgow Royal Infirmary and Visiting Researcher at Microgravity Laboratory, IPCT-PUCRS, Brazil

1145 - 1155 Elbow Angulation - Key to Performing Effective Lunar CPR

Gihan Ganeshanantham
Visiting Researcher at Microgravity Laboratory, IPCT-PUCRS, Brazil, Medical Student at Imperial College London (MBBS/BSc)

1155 - 1205 Surface Electromyography in Subjects performing External Cardiac Compression during Microgravity Simulation

Agnieszka Skorko BSc Aerospace Medicine, Medical Student, King's College School of Medical Sciences at Guys', King's and St Thomas' Hospitals

1205 - 1215 Cardiopulmonary Evaluation of the Rescuer During Cardiac Massage in Parabolic Flight

Dr Vishal Nangalia MBChB BSc
North West London Hospitals Trust

1215 - 1230 Questions and Discussion

1245 - 1330 LUNCH

PANEL 7: MEDICAL ISSUES FOR SPACE TOURISM

Chair: TBA

- 1330 - 1400 Space Tourism: "Are we there yet?"
Dr Tim Evans MB ChB MRCP
- 1400 - 1430 Modelling Risk in Space Medicine in
Government and Commercial
Programmes
Kieran Smart BA MBChB MSc MPH MRCP,
Flight Surgeon, Space Medicine Advanced
Projects, Wyle Laboratories, Texas
- 1430 - 1500 Virgin Galactic: The commercial
spaceflight medical conundrum: a work
in progress
Dr Julia Tizard, Virgin Galactic
- 1500 - 1515 Questions and discussion
- 1515 - 1545 COFFEE

Panel 8: SPACE MEDICINE IN THE UK: WHAT NOW?

- 1545 - 1615 Panel of UK and International Space
Medicine experts discuss the future of
UK Space Medicine and how you can
get involved.
- Panel: Dr Kevin Fong
Dr Phil Scarpa
Dr Mark Campbell
Dr Jonathan Clark
Dr Simon Evetts
- 1615 - 1630 Questions and Close