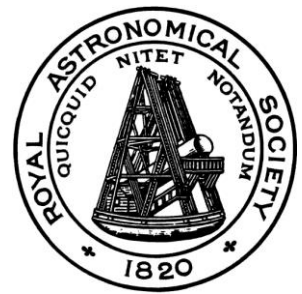


A *Royal Astronomical Society* Specialist Discussion Meeting to be held on Friday 8 November 2013 in the Lecture Theatre of the Geological Society, Burlington House, Piccadilly, London.



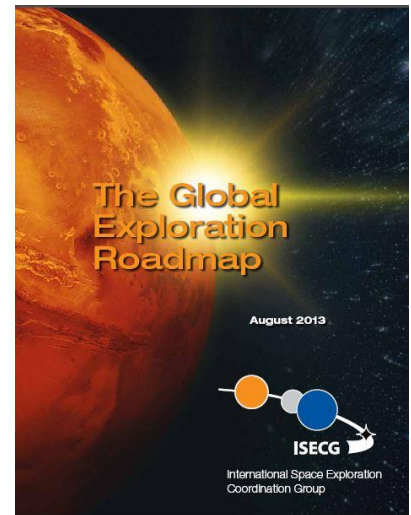
## ***Science Enabled by the Global Exploration Roadmap***

Organised by: Professor Ian Crawford (Birkbeck), Professor John Zarnecki (OU/UCL),  
Mr Jeremy Curtis (UKSA) and Dr Jill Stuart (LSE/*Space Policy*)

Under the auspices of the International Space Exploration Coordination Group (ISECG), in September 2011 twelve of the world's space agencies, including the UK Space Agency, came together to produce a plan for the international human and robotic exploration of the inner Solar System. In August 2013 this Global Exploration Roadmap was revised, and the latest version may be accessed at:

<http://www.globalspaceexploration.org/web/isecg/news/2013-08-20>

The Roadmap reflects the international effort to define feasible and sustainable exploration pathways to the Moon, near-Earth asteroids, and Mars over the next 25 years.



Many diverse areas of science represented by the RAS would benefit from implementation of the Global Exploration Roadmap, including planetary science, astrobiology, and space astronomy. This interdisciplinary meeting will aim to cover all of these areas, and to raise the profile of the Global Exploration Roadmap among the scientific community.

### **Meeting Programme**

9:30 Registration/Tea/Coffee

#### **Morning Session. Chair: Ian Crawford (Birkbeck)**

10:00	Ian Crawford (Birkbeck)	Welcome
10:10	Kathy Laurini (NASA)	Introduction to ISECG and the Global Exploration Roadmap: NASA view
10:30	Jeremy Curtis (UKSA)	A UKSA view of the Global Exploration Roadmap and review of potential benefits
10:50	Sylvie Espinasse (ESA)	Synergies between science driven missions and human exploration preparation: strategic knowledge gaps

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|-------|--|--|
| 11:10 | Helen Fraser (OU)                              | Researching and understanding future Solar System exploration via ELIPS science facilities |
| 11:33 | Simon Evetts (UK Space Biomedicine Consortium) | Space biomedicine research opportunities from the Global Exploration Roadmap               |
| 11:56 | Heino Falcke (Radboud University/ASTRON)       | Astronomy and the Global Exploration Roadmap   |
| 12:20 | General Discussion                             |  |
| 12:30 | Lunch  |  |

**Afternoon Session, Chair: Jeremy Curtis**

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|-------|--|---|
| 13:30 | David Kring (LPI)                          | Integrated robotic and human exploration of the Moon within the context of the Global Exploration Roadmap       |
| 13:50 | James Carpenter (ESA)                      | Science at the Lunar Surface enabled by the Global Exploration Roadmap  |
| 14:05 | Monica Grady (OU)                          | Mars science opportunities resulting from the Global Exploration Roadmap  |
| 14:25 | Mark Sephton (Imperial)                    | Astrobiology research opportunities arising from the Global Exploration Roadmap                                 |
| 14:45 | Mark Burchell (Kent)                       | Asteroid science opportunities resulting from the Global Exploration Roadmap                                    |
| 15:05 | Ian Crawford (Birkbeck)                    | The Global Exploration Roadmap: towards an integrated scientific and societal case for global space exploration |
| 15:25 | General Discussion                         |   |
| 15:35 | End of Specialist Discussion Meeting / Tea |   |
| 16:00 | RAS 'Ordinary Meeting'                     |   |

Abstracts may be accessed at:

[http://www.homepages.ucl.ac.uk/~ucfbiac/GER\\_meeting\\_abstract\\_book.pdf](http://www.homepages.ucl.ac.uk/~ucfbiac/GER_meeting_abstract_book.pdf)

Registration is at the door. Attendance is free for RAS and GSL members, £15 for non-members (£5 for students).

For further details please see: <http://www.ras.org.uk/events-and-meetings/ras-meetings>