**2nd UCL Space week – Space, the Enabler, 13-17 May 2019**

# Preliminary programme

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|  | Morning | 13:00 - 14:00 | Afternoon | Evening |
| Monday 13 May | 09:00 Break and cakes09:30 – 13:00OpeningKey note‘Space the Enabler’ session 1 | Lunch | 14:00 – 17:30‘Space the enabler’ session 2 | 17:30 -19:00Drinks Reception |
| Tuesday 14 May | 08:30 Break and cakes09:00 – 10:45Case study Workshop:‘How space enables shipping’ |  | 14:00 – 16:30UCL Satellite Applications and Commercial Engagements16:30 – 17:30UCL Satellite Applications Interest Group general meeting14:00 – 17:00ISPL Seminar ‘Disaster Prevention and Management’ | 18:30 Drinks19:00 – 21:00 Space Policy Workshop: Dinner |
| Wednesday 15 May | 08:30 Break and cakes09:00 – 13:002nd Space Policy Workshop- ‘Enabling Space’ | Lunch | 14:00 – 18:002nd Space Policy Workshop- ‘Enabling Space’ |  |
| Thursday 16 May | 08:30 Break and cakes09:00 – 13:00‘Robotic Exploration of the Solar System’ |  | 14:00 – 17:30‘50 years After Apollo – returning to the Moon’ | Reception |
| Friday 17 May | 08:30 Break and cakes09:00 – 12:30ESA\_LAB@UCLRapporteur’s remarksClose |  |  |  |

# Monday 13th May

# Space the enabler

Location: Christopher Ingold Building XLG1 Chemistry Lecture Theatre, UCL, 20 Gordon Street, London, WC1H 0AJ

Co-Chairs: Alan Smith(am), Serge Plattard(pm)

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| **Time** | **Topic** | **Speaker** |
| 09:00 – 09:30 | Break and cakes |  |
| 09:30 – 09:45 | Opening  | David Price |
| 09:45 – 10:30 | Key Note  | Philip Davies |
| 10:30 – 11:15 | Science | David Southwood |
| 11:15 – 11:35 | Break |  |
| 11:35 – 12:15 | Transport | Maria Kamargianni |
| 12:15 – 12:55 | Weather | TBD |
| 12:50 – 14:00 | Lunch |  |
| 14:00 – 14:45 | Environment/Climate change | Stephen Briggs |
| 14:45 – 15:30  | Global Communications | Alison Grey |
| 15:30 – 16:00 | Break |  |
| 16:00 – 16:45 | Security | Patricia Lewis |
| 16:45 – 17:30 | International relations | Xavier Pasco |
| 17:30 – 19:00 | Reception |  |

# Tuesday 14th May

# How Space Enables Shipping – a Workshop

Location: Christopher Ingold Building XLG1 Chemistry Lecture Theatre, UCL, 20 Gordon Street, London, WC1H 0AJ

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| **Time** | **Topic** | **Speaker** |
| 08:30 – 09:00 | Break |  |
| 09:00 – 10:45 | How space enables shipping | Tristan Smith |

# Satellite Applications

Location: Christopher Ingold Building XLG1 Chemistry Lecture Theatre, UCL, 20 Gordon Street, London, WC1H 0AJ

Chair: Serge Plattard

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| --- | --- | --- |
| **Time** | **Topic** | **Speaker** |
| 14:00 – 14:10 | Introduction | Alan Smith |
| 14:10 – 14:30 | iVoice  | Iya Whitely |
| 14:30 – 14:50 | AI for good (Element AI) | Julien Cornebise |
| 15:00 – 15:20 | Fault detection in Satellites using AI with Eutelsat; Dark vessel and rouge fishing detection using geospatial intelligence AI with OceanMind | Ingo Waldmann |
| 15:10 – 15:20 | Earth Observation for Green Spaces | Dan Osborn |
| 15:20 - 15:30 | Space Weather Instrumentation | Dhiren Kataria |
| 15:30 – 15:40 | SmartSat | Alan Smith |
| 15:40 – 15:50 | LHEADS | TBC |
| 15:50– 16:00 | Super-resolution imaging  | Jan-Peter Muller  |
| 16:00 – 16:10 | Twinkle | Giovanna Tinetti |
| 16:10 – 16:30 | Break |  |
| 16:30 – 17:30 | SAIG meeting | Alan Smith (Chair) |

ISPL / UCL Space Domain Seminar – Disaster Prevention and Management

Location: Charles Clore House, 17 Russell Square, London, WC1B 5DR

Chair: David Southwood

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| **Time** | **Topic** | **Speaker** |
| 14:00 – 14:05 | Welcome | David Southwood |
| 14:05 – 14:20 | Disaster Events and Legal Framework | Sa’id Mosteshar |
| 14:20 – 15:00 | The Nature and Evaluation of Risk; Role of Satellites in Disaster Management in the Phillipines | James Cemmell |
| 15:00 – 15:40 | Disaster Prediction, Response and Management; Post Disaster and Recovery | Robert Wicks |
| 15:40 – 16:10 | Break |  |
| 16:10 – 16:50 | The Disaster Charter Development and Operation; Copernicus Contribution, its Emergency Services and the Role of the Sentinel Satellites | Jan-Peter Muller |
| 16:50 – 17:00 | Closing remarks | David Southwood |

# Wednesday 15th May

# Space Policy Workshop – Enabling Space

Location: Christopher Ingold Building XLG1 Chemistry Lecture Theatre, UCL, 20 Gordon Street, London, WC1H 0AJ

Co-chairs: Jean-Jacques Dordain(pm) and Jo Chataway(am)

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| **Time** | **Topic** | **Speaker** |
| 09:00 – 09:15 | Opening | Alan Smith |
| 09:15 – 09:45 | Past and Current Enablers of Space  | Serge Plattard |
| 09:45 – 10:25 | International relations | Frederik Nordlund |
| 10:25 – 11:05 | India | Arfan Chaudhry |
| 11:05 – 11:35 | Break |  |
| 11:35 – 12:15 | Law | Martin Petto |
| 12:15 – 12:55 | Law | Sa’id Mosteshar |
| 13:00 – 14:00 | Lunch |  |
| 14:00 – 14:35 | Policy | David Willetts |
| 14:35 – 15:10 | Capability, Capacity and Technology | Andy Green |
| 15:10 – 15:45 | Capability, Capacity and Technology | James Cemmell |
| 15:45 – 16:05 | Break |  |
| 16:05 – 16:35 | Space traffic control | Peter Stubbe |
| 16:35 – 16:55 | Space Weather | Lucie Green |
| 16:55 – 17:15 | Public Engagement | Doug Millard |
| 17:15 – 17:55 | Plenary & Summary |  |
| 17:55 - 18:00 | Close |  |

# Thursday 16th May

# The robotic exploration of the Solar System

Location: Christopher Ingold Building XLG1 Chemistry Lecture Theatre, UCL, 20 Gordon Street, London, WC1H 0AJ

Chair: Alan Smith

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| **Time** | **Topic** | **Speaker** |
| 09:00 – 09:10 | Introduction | Alan Smith |
| 09:10 – 09:40 | Moon | Ian Crawford |
| 09:40 – 10:10 | Mercury | Dave Rothery |
| 10:10 – 10:40 | Venus | Colin Wilson |
| 10:40 – 11:00 | Break |  |
| 11:00 – 11:25 | Mars | Andrew Coates |
| 11:25 – 11:50 | Jupiter | Nick Achilleos |
| 11:50 – 12:15 | Saturn | Carl Murray |
| 12:15 – 12:40 | Kuiper Belt objects | George Brydon |
| 12:40 – 13:05 | Asteroids and Comets | Ramy Elmaarry |

# 50 years since Apollo – returning to the Moon

Location: Christopher Ingold Building XLG1 Chemistry Lecture Theatre, UCL, 20 Gordon Street, London, WC1H 0AJ

Chair: Andrew Edkins

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| **Time** | **Topic** | **Speaker** |
| 14:00 - 14:05 | Welcome | Andrew Edkins |
| 14:05 - 14:35 | The Societal and Economic Impact of Apollo | Mariana Mazzucato |
| 14:35 - 15:05 | Future Human exploration and habitation of the Moon | Ian Crawford |
| 15:05 – 15:20 | DoT-4 Lunar Comms Demonstrator | Ashvi Ilott |
| 15:20 - 15:50 | NASA's plans and aspirations | Timothy Tawney |
| 15:50 - 16:20 | ESA's plans and aspirations | Piero Messina |
| 16:20 - 16:35 | China's plans and aspirations | TBC |
| 16:35 - 16:50 | Political and Policy considerations  | Serge Plattard |
| 16:50 - 17:05 | An Active Shielding: fact or fiction  | Ruth Bamford |
| 17:05 - 17:30 | Towards a future UCL Off-World Living Institute - OWLI | Andrew Edkins |
| 17:30 - 19:00 | Drinks reception |  |

# Friday 17th May

# ESA\_Lab@UCL.

Location: Christopher Ingold Building XLG1 Chemistry Lecture Theatre, UCL, 20 Gordon Street, London, WC1H 0AJ

Chair: Serge Plattard

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| **Time** | **Speaker** | **Contact** |
| 09:00 – 09:10 | Introduction | Alan Smith |
| 09:10 – 09:30 | ESA\_LABs programme | Piero Messina |
| 09:30 – 09:40 | Earth Observation | Alan Smith for Julienne Stroeve |
| 09:40 – 09:50 | Space Project Management and Systems Engineering | Michael Emes |
| 09:50 – 10:00 | Interdisciplinary Space Studies and Research | Victor Buchli |
| 10:00 – 10:10 | Economics, Innovation and Public Policy | Angeliki Kapoglou |
| 10:10 – 10:20 | Material Science | Kwang Choy |
| 10:20 – 10:30 | Space Weather | Lucie Green |
| 10:30 – 10:40 | Off-World Living | Andrew Edkins |
| 10:40 – 10:50 | Orbital Dynamics and Space Safety | Marek Ziebart |
| 10:50 – 11:00 | Planetary Sciences | TBC |
| 11:00 – 11:20  | Break |  |
| 11:20 – 11:30 | Space Science Instrumentation | Dhiren Kataria |
| 11:30 – 11:40 | Space Law and Regulation | TBC |
| 11:40 – 11:50 | Space Medicine | Iya Whitely |
| 11:50 – 12:00 | Space Policy, Governance and Security | Serge Plattard |
| 12:00 – 12:10 | Exoplanet Research | Ingo Waldmann |
| 12:10 – 12:20 | Cubesats/Nanosats | Rob Wicks |
| 12:20 – 12:40 | Space Week Summary | Alan Smith |
| 12:40 | Close |  |