



**THIS IS A DRAFT SCHEDULE. SPEAKERS ARE NOT CONFIRMED
PLEASE CONSULT AN UP TO DATE SCHEDULE DURING THE MEETING**

UKPF Early Career Meeting University of Oxford - 13th January 2025

09:00	Arrival and registration
09:20	Opening remarks

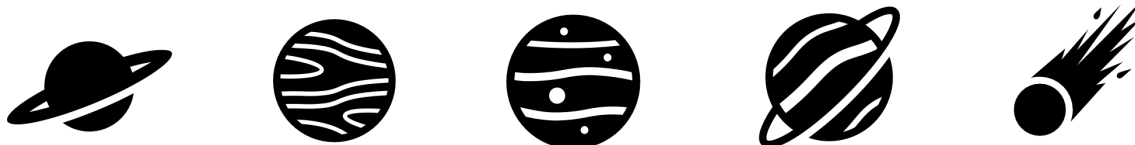
Session 1: Airless Bodies

09:30	Martin Suttle , Open University Why does Phaethon behave like a comet and how can we explain repeated gas emission from a heated surface?
09:38	Brian Murphy , University of Edinburgh Deconstructed Coma Evolution of Comet 67P/Churyumov-Gerasimenko
09:46	Danielle Kallenborn , Imperial College London The Formation of the Schrödinger Basin: 3D Impact Simulations in a Heterogeneous Target
09:54	Daniel Sheward , Paris Institute of Planetary Physics The Resultant Craters from Lunar Impact Flashes
10:02	Carys Bill , Imperial College London Constraining Impact Parameters for the Formation of the Moon's South Pole-Aitken Basin
10:10	Session 1 Q&A Panel

Session 2: Exploration and instrumentation

10:20	Steph Merritt , Queen's University Belfast Sorcha: A Solar System Survey Simulator for the Legacy Survey of Space and Time
10:28	Abbie Donaldson , University of Edinburgh Characterising Comets in the LSST Era: Preparing for Comet Interceptor
10:36	Lukas Adam , University of Leicester Synchrotron X-ray diffraction for sealed Mars Sample Return sample tubes
10:44	Sarah Howes , University of Oxford Thermal Surface Mapping of Europa using Galileo PPR
10:52	Adam Fox , University of Leicester Experimentally measuring the elemental sensitivity of MIXS detectors in support of the BepiColombo mission

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11:00	Session 2 Q&A Panel
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11:10 - 11:20	Coffee break
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11:20 – 11:40	Keynote: Jon Pineau
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Session 3: Lightning talks

11:40 - 12:00	8 x 2-minute lightning talks
12:00 - 12:15	Break
12:15 - 12:35	8 x 2-minute lightning talks

12:35 - 14:00	Lunch (courtesy of STFC) and poster session
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14:00 - 14:20	Keynote: Associate Professor James Bryson
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Session 4: Atmospheres and magnetospheres

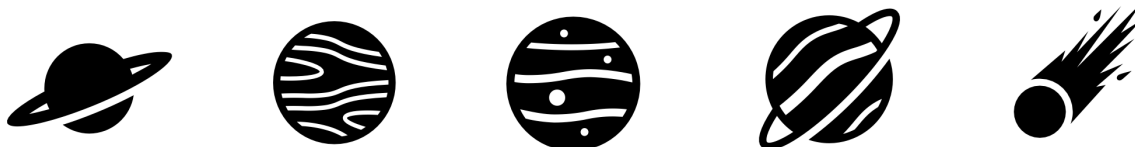
14:20	John Allen , University of Oxford Circulation models of inflated ultra-hot Jupiters
14:28	Simon Toogood , University of Leicester Zonally averaged aerosol distributions at Jupiter's South Pole using JWST NIRSpec data
14:36	Harrison Nicholls , University of Oxford Convective shutdown in the atmospheres of lava worlds
14:44	Joshua Ford , University of Bristol Water in Titan's Atmosphere: Preliminary Results
14:52	Vinayak Shastri , Open University Changes to water ice clouds in the Martian north pole during high atmospheric dust levels
15:00	Session 4 Q&A Panel

15:00 - 15:10	Coffee break
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Session 5: Planetary geology and geochemistry

15:10	Niamh Topping , University of Leicester Correlative Analyses of Sulphur-bearing Serpentine in Carbonaceous Chondrites
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15:18	Ben Rider-Stokes , Open University Rapid Planet Formation in the Outer Solar System
15:26	Emma Belhadfa , University of Oxford Comparative Emissivity Analysis of Proposed Sample Sites on Asteroid (101955) Bennu
15:34	Robert Platt , Imperial College London Automated Mineral Mapping of Oxia Planum – Broad Findings and New Discoveries
15:42	Nikol Davidov , Imperial College London Spatial, Temporal, and Structural Relationships Between Coronae and Extensional Belts of Parga Chasma, Venus
15:50	Session 5 Q&A Panel
15:50 - 16:00	Break

Session 6: Habitability and astrobiology

16:00	Adam Losekoot , Open University The Fluvial History of Noachis Terra and Hellas Basin Mars
16:08	Solomon Hirsch , Imperial College London Preservation of extracellular sheaths produced by iron-oxidising bacteria: an analogue for potential morphological biosignatures on Mars
16:16	Sylvia Olewinski , Birkbeck, University of London Non-destructive 3D analyses of biosignature-bearing sedimentary rock samples in preparation for Mars Sample Return
16:24	Flynn Ames , University of Reading Ocean stratification impedes particulate transport to the plumes of Enceladus
16:32	Riley Brightwell , Birkbeck, University of London The Effects of Continental Configuration on the Climates and Habitability of Tidally Locked Exoplanets: An Exploration in Exo-Ecology
16:40	Session 6 Q&A Panel
16:50	Update from UKPF
16:55	Closing Remarks
17:00 onwards	Social event: The King's Arms

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