ASB 10 - Conference Programme

Monday 16th June

17.00 - 18.30 | Icebreaker and site registration - Arts Building Level 1 Foyer

Tuesday 17 th June – Physics Building Foyer and Lecture Theatre B			
09.30	Arrival, site registration + refreshments		
10.30	Cousins	Welcome	
10.40	Keynote 1 - Inge Loes Ten Kate "Biosignatures, falses, and public perception"		
11.10	Baidya	Magmatic reactive phosphorus on the prebiotic Earth and implications for the origin of life	
11.25	Boden	Establishment of the Nitrogen Cycle on Early Earth	
11.40	Holland	Igneous Rocks as a Viable Source of Fixed Nitrogen to Prebiotic Worlds	
11.55	McDonald	The efficiency of delivering prebiotic feedstocks to the early Earth with cometary impacts	
12.10	Lunch (provided)		
13.30	Keynote 2 - Sophie Nixon "Unearthing the rules of life in microbiomes: Implications for astrobiology"		
14.00	Cockell	Fullerenes (C60) induce a microbial metabolomic stress response under anaerobic conditions	
14.15	Gault	Titan analogue tholins are biologically inaccessible	
14.30	Latorre	Biogeochemical cycles in extreme volcanic environments	
14.45	Ruiz-González	Snow algal plasticity and metabolic responses during a simulated Lunar light cycle	
15.00	Refreshment break		
15.30	Olsson-Francis	A new era of planetary protection for Mars	
15.45	del Moral	Insights into Europa's biological potential using high-pressure laboratory simulations	
16.00	Galloway	Bioenergetic potential of Mars analogue hot spring microbial communities	
16.15	Tatton	Nitrate-dependent Sulphur oxidation on Mars? Insights from a high-altitude Andean Lake	
16.30	Hirsch	Preservation of iron-oxidising bacteria: an analogue for potential morphological biosignatures on	
		Mars	
17.00 - 18.30	ECR Event - Gate	way Boardroom, Gateway Building	

Wednesday 18 th June - Physics Building Foyer and Lecture Theatre B				
9.30	Tea/coffee	Tea/coffee		
10.00	Keynote - Sean Jordan – "Observationally Constraining Planetary Habitability"			
10.30	Caughtry	Mid-IR Characterisation of Salty Ice During Cooling and Exposure to Vacuum: Implications for Future Icy Moon Missions		
10.45	Hogan	Size-Dependent Composition of Ice Grains Relevant to Salt-Rich Particles in the Plumes of Enceladus		
11.00	Fox-Powell	What is the chemical composition of the shallowest liquid water in Europa's ice shell?		
11.15	Guimond	Slightly carbon-rich rocky planets		
11.30	Refreshment break			
11.45	Nielson	Constraining elemental enrichments linked to areas of preserved organic matter in Mars analogue sedimentary rocks		
12.00	Marsh	Rover-Level Cross-Calibration of the Rosalind Franklin Rover's Enfys and PanCam Instruments		
12.15	Blasciuc	Mechanochemical oxidant generation on Mars- an insight into Martian chemistry		
12.30	Loron	Resolving affinities of mysterious fossils using infrared spectroscopy and machine learning		
12.45	Lunch (provided)			
13.45	Rodgers	Can Pareto Optimality Be Evidence of Life?		
14.00	Stewart	Understanding the adsorption of amino acids onto montmorillonite clays through molecular simulations		
14.15	Tang	Latest Results from the JCMT-Venus Atmospheric Monitoring Project		
14.30	UKSA	Community discussion/opportunities		
15.00	Posters and refreshments - Parliament Hall			
17.00	End	End		