BPSC 2020 - Monday 13 January - AM

08:30 Registration 09:00 WELCOME - Colin Wilson						
Outer planet atmospheres						
09:10	Leigh	Fletcher	Leicester University	Jupiter's tropical circulation revealed via Juno radiometry and ground-based infrared spectroscopy		
09:23	Peter	Read	Oxford University	Modelling Jupiter's Dynamic Weather Layer: Turbulence, Clouds & Moist Convection		
09:36	Patrick	Irwin	Oxford University	Exploring Clouds and Composition of Ice Giants with Ground- and Space-Based Telescopes Using Visible/Near-IR		
09:49	Naomi	Rowe-Gurney	Leicester University	Longitudinal Variations in the Stratosphere of Uranus from the Spitzer Infrared Spectrometer		
10:02	Michale	Roman	Leicester University	Uranus and Neptune in the Mid-Infrared: Atmospheric Temperatures and Circulation Inferred from Thermal Imaging		
10:15	Karen	Aplin	Bristol University	Atmospheric Ionisation and Lightning at the Ice Giant Planets		
10:28	Affelia	Wibisono	UCL/MSSL	Temporal and Spectral Studies of Jupiter's X-Ray Aurorae with XMM-Newton During a Compression Event		
10:41	Richard	Haythornthwaite	UCL/MSSL	Fast and slow water ion populations in the Enceladus plume		
10:55 COFFEE Atmospheres posters: authors in attendance						
	Terrestrial	Planet atmosphere	es			
11:25	Sarah	Rugheimer	Oxford University	Detecting Pre-Biosignatures in the Atmospheres of Earth-Like Planets around Other Stars		
11:38	Robert	Graham	Oxford University	Energetic and Thermodynamic Limits on Continental Silicate Weathering Strongly Impact the Habitability of Wet, Rocky Worlds		
11:51	Greg	Colyer	Oxford University	Multiple Superrotating States in an Idealized Model of the Atmosphere of Venus, a Slowly-Rotating Terrestrial Planet		
12:04	Martin	Airey	University of Reading	Laboratory experiments to investigate the effects of galactic cosmic ray ionisation on cloud droplet behaviour in Venus' atmosphere		
	Astrobiolog	gy				
12:17	Claire	Cousins	St Andrews University	Sulfur Biogeochemistry and ?34s Biosignatures in a Cold, Hypersaline Arctic Spring		
12:30	Michael	Macey	Open University	Colour Peak – an analogue environment for late Noachian Mars		
12:43	Jianxun	Shen	St Andrews University	Biogeochemical Nutrient Dynamics and Microbial Communities in the Ataca-ma Desert, A Mars Analog		
12:56	Arola	Moreras Marti	St Andrews University	Are δ 13C and quadruple S isotopes robust biosignatures in Mars-relevant geothermal systems?		
				geotherma systems:		

BPSC 2020 - Monday 13 January - PM

14:23 Granam Purvis Newcastle University Of Fossilised Life On Mars 14:36 Sam Halim Birkbeck Assessing the survivability of biomarkers within terrestrial material impacting the lunar surface 14:49 Zoe Morland Open University Transfer of Biomarkers in the Phobos-Mars System: Hyper-Velocity Impact Investigations Using a Light Gas Gun 15:02 Annemarie Pickersgill Glasgow University Searching for Bioalteration in Impact Glasses Meteorites & sample return 15:15 Jane MacArthur Manchester University The Lost Meteorites of Antarctica: Meteorites from the First Field Season 15:28 Ashley King Open University How many asteroids do the CM carbonaceous chondrites sample? 15:45 COFFEE Meteorites posters: authors in attendance 16:15 Richard Greenwood Open University What is the oxygen isotope composition of Venus? The case for sample return from Earth's "sister" planet 16:28 Martin Suttle NHM Relationships between hydrated carbonaceous chondrites: investigating the libetween CO-CM-CY chondrites and 160-poor micrometeorites 16:41 Rhian Jones Manchester University Mobility of Halogen Elements in Ordinary Chondrite Breccias	13:10 LUNCH			Astrobiology posters: authors in attendance			
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17:33 Aine O'Brien Glasgow University preparation for Exomars, Mars 2020 and Mars sample return	17:20	Samantha	Bell	Manchester University			
17:46 Leon Hicks Leicester University Fe-redox changes in Itokawa space weathered zones	17:33	Aine	O'Brien	Glasgow University			
	17:46	Leon	Hicks	Leicester University	Fe-redox changes in Itokawa space weathered zones		

BPSC 2020 - Tuesday 14 January - AM

	Mars - geo	omorphology		
09:00	Matt	Balme	Open University	Aram Dorsum: an Extensive Noachian-Age Fluvial Depositional System in Arabia Terra, Mars
09:13	Alfiah	Putri	UCL/MSSL	Mapping of dynamic change phenomena on Mars and their relationship underlying physical constraints
09:26	Robert	Barnes	Imperial College, London	Three-Dimensional reconstruction and quantification of fluvial-deltaic sedimentary deposits in Gale Crater, Mars, from rover-derived digital outcrop models
09:39	Yu	Tao	UCL/MSSL	3D multi-resolution mapping of Valles Marineris for improved understanding of RSL formation mechanisms
09:52	Divya	Persaud	UCL/MSSL	Stratigraphy in a Channel in Gale Crater, Mars, from 3D HiRISE Imagery
10:05	Joel	Davis	NHM	Syn-tectonic Sedimentation in Valles Marineris: a Punctuated Decline of Water on Mars?
10:18	Adam	Parkes Bowen	Leicester University	Using band ratioed CaSSIS imagery to characterise Oxia Planum's claybearing unit
10:31	John	Bridges	Leicester University	The Mineralogical Record of Groundwater-Sediment Reactions in Gale Crater
10:45	COFFEE			
	Mars - flui	id-surface inter	actions	
11:15		id-surface intera	Oxford University	An archive of atmospheric CO2 in the Martian rock record
	Lucy			Predicting possible liquid water locations beneath Mars' south polar ice
11:15 11:28	Lucy	Kissick	Oxford University	
11:15 11:28 11:41	Lucy Neil	Kissick Arnold	Oxford University Cambridge	Predicting possible liquid water locations beneath Mars' south polar ice cap
11:15 11:28 11:41 11:54	Lucy Neil Hannah	Kissick Arnold Chinnery Butcher	Oxford University Cambridge Open University	Predicting possible liquid water locations beneath Mars' south polar ice cap The Penetration of Solar Radiation into Martian Ice Analogues Internal Structure of A Mid-Latitude Glacier on Mars
11:15 11:28 11:41 11:54 12:07	Lucy Neil Hannah Frances	Kissick Arnold Chinnery Butcher	Oxford University Cambridge Open University Sheffield University	Predicting possible liquid water locations beneath Mars' south polar ice cap The Penetration of Solar Radiation into Martian Ice Analogues Internal Structure of A Mid-Latitude Glacier on Mars Experimental Investigation of The Action of CO2 Sublimation in Martian
11:15 11:28 11:41 11:54 12:07	Lucy Neil Hannah Frances Matthew	Kissick Arnold Chinnery Butcher Sylvest	Oxford University Cambridge Open University Sheffield University Open University	Predicting possible liquid water locations beneath Mars' south polar ice cap The Penetration of Solar Radiation into Martian Ice Analogues Internal Structure of A Mid-Latitude Glacier on Mars Experimental Investigation of The Action of CO2 Sublimation in Martian Landscape Evolution Quantifying Dune and Ripple Migration in Valles Marineris, Mars: A Sou

BPSC 2020 - Tuesday 14 January - PM

13:00	LUNCH						
	Planetary	surfaces					
14:00	Jan-Peter	Muller	UCL/MSSL	3D Imaging Tools and Geospatial Services from Joint European-USA Collaborations			
14:13	Maxim	Chernetsk	UCL/MSSL	3D Imaging of the Moon for the NASA Artemis Human Exploration Programme			
14:26	Graeme	Hall	Leicester University	The distribution of peak-ring basins on Mercury and their correlations with the high-Mg/Si terrane			
14:39	Chris	Malliband	Open University	Potential identification of sublimation-driven downslope mass movements on Mercury			
14:52	Mark	Burchell	Univ. of Kent at Canterbury	Destroying Icy Ocean Worlds			
15:05	Mark Fox-Powe		St Andrews University	Freezing-Induced Fractionation of Ice, Glass and Salts from Simulated Enceladus Ocean Fluids			
15:18	Rachael	Hamp	Open University	Modelling Water-Rock Interactions in the Sub-surface Environment of Enceladus			
15:31	Oliver	King	Leicester University	Compositional Mapping of Europa with VLT/SPHERE			
15:45	COFFEE		Surface & interior posters: authors in attendance				
	COLLE		Surface & interior posters.	authors in attenuance			
		interior pro		authors in attenuance			
16:15	Planetary	interior pro		Results from the Short-Period (SP) seismometers on the Mars Insight Mission			
	Planetary Tom	Pike	oceses				
16:15	Planetary Tom Anna	Pike	Imperial College, London Bristol University	Results from the Short-Period (SP) seismometers on the Mars Insight Mission The Marsquake Service for Insight: Results from the First Year of Operations			
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16:15 16:28 16:41 16:54	Planetary Tom Anna Peter	Pike Horleston Grindrod	Imperial College, London Bristol University NHM	Results from the Short-Period (SP) seismometers on the Mars Insight Mission The Marsquake Service for Insight: Results from the First Year of Operations on Mars How does Venus Lose its Heat? Global Implications of Small-scale Resurfacing			
16:15 16:28 16:41 16:54	Planetary Tom Anna Peter Ghail Marissa	Pike Horleston Grindrod Richard	Imperial College, London Bristol University NHM Royal Holloway, London	Results from the Short-Period (SP) seismometers on the Mars Insight Mission The Marsquake Service for Insight: Results from the First Year of Operations on Mars How does Venus Lose its Heat? Global Implications of Small-scale Resurfacing Jostling Crustal Block Activity on Venus Driven by Subcrustal Rejuvenation			
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16:15 16:28 16:41 16:54 17:07 17:20	Planetary Tom Anna Peter Ghail Marissa Dan David	Pike Horleston Grindrod Richard Lo Spencer	Imperial College, London Bristol University NHM Royal Holloway, London Manchester University Oxford University	Results from the Short-Period (SP) seismometers on the Mars Insight Mission The Marsquake Service for Insight: Results from the First Year of Operations on Mars How does Venus Lose its Heat? Global Implications of Small-scale Resurfacing Jostling Crustal Block Activity on Venus Driven by Subcrustal Rejuvenation Modelling the Ascent and Eruption of Picritic Lunar Magmas Magmatic segregation and volcanism on Io			
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BPSC 2020 - Wednesday 15 January - AM

08:30 Registration / doors open							
Missions	Missions / Facilities / Tools						
09:00 Sabina	Raducan	Imperial College, London	Numerical Simulations for Planetary Defence Missions				
09:13 Luke	Daly	Glasgow University	The UK Fireball Network; A New Camera Network Aiming to Recover Meteorite Falls in the UK				
09:26 Niranjan	Thatte	Oxford University	Observing Solar System Objects with HARMONI@ELT				
09:39 Carlo	Convenevole	Cranfield University	Lunar SOURCE: A concept for a Lunar SOUnding Radar Cubesat Experiment				
09:52 Neil	Bowles	Oxford University	The Lunar Trailblazer mission: Understanding the Moon's water				
10:12 Geraint	Jones	UCL/MSSL	Comet Interceptor: An ESA Mission to an Ancient World				
10:32 Richard	Ghail	Royal Holloway, London	The M5 EnVision Venus Orbiter				
10:50 COFFEE		Missions / Facilities / Tool	s Posters: authors in attendance				
11:20 Ralph	Lorenz	JHU/APL	The Dragonfly New Frontiers Mission to Titan				
11:40 Sara	Russell	NHM	European Involvement in JAXA'S Mars Moons Exploration (MMX) Sample Return Mission to the Martian Moons				
12:00 Andrew	Coates	UCL/MSSL	The PanCam instrument for the Rosalind Franklin (ExoMars 2020) rover				
12:20 Matt	Balme	Open University	Opportunities for Involvement in the Exomars Programme				
12:40 Monica	Grady	Open University	LARES: Laboratory Analysis for Research into Extraterrestrial Samples				
13:00 LUNCH							

BPSC 2020 - Wednesday 15 January - PM

13:00 LUNCH			
Discussio	n		
14:00 Chris	Lee	UKSA	UKSA Space Science programme update
14:10 Sue	Horne	UKSA	UKSA exploration programme update
14:20			Discussion on post-ExoMars exploration programme
14:35 Robert	Massey	RAS	RAS update
14:50 James	Endicott	SPAN	SPace Academic Network
15:05 Colin	Wilson	SSAP	STFC Solar System Advisory Panel / Solar System Roadmap
15:15 John	Pernet-Fisher	UKPF	UK Planetary Forum
15:20			Panel discussion / Q & A for all session speakers

16:00 END OF DAY 3

4pm-6pm Splinter meeting for discussion of LARES: Lab Analysis for Research into Extraterrestrial Samples

Martin Wood Lecture Theatre

contact: Monica Grady (Open Univ)

BPSC 2020 - POSTER PROGRAMME - GROUP 1

		Atmospheres			Authors at posters : Monday am
	_	James	Blake	Leicester University	Saturn's Seasonal Atmosphere: Cassini CIRS contrasts to VLT and IRTF observations
	Foyer	Arrate	Antunano	Leicester University	Fluctuations in Jupiter's Quasi-Quadrennial Oscillation from Ground-based data
bū	6	Padraig	Donnelly	Leicester University	Mapping Jupiter's Temperatures, Aerosols and Ammonia via VLT/VISIR Imaging in 2016
. <u>≃</u>	<u> </u>	Ralph	Lorenz	JHU/APL	Initial Observations of the Mars Surface Environment Using the Insight Solar Arrays
orn	000	Megan	Brown	Open University	Investigating the Relationship Between Ozone and Water-Ice Clouds Using Retrieved Data from the Exomars Trace Gas Orbiter
Ĕ	≥	Alex	Valeanu	Oxford University	From spacecraft data to rover measurements – Martian atmospheric modelling and observations
posters: display Monday and Tuesday morning	Martin Wood	Juan	Alday Parejo	Oxford University	Vertical profiles of isotopic ratios in H2O and CO2 in the Martian atmosphere as observed by ACS onboard the ExoMars Trace Gas Orbiter
es	٦a	Astrobiology			Authors at posters : Monday lunchtime
그	_	David	Slade	Open University	Methane production by Methanoculleus marisnigri in a simulated martian subsurface environment
, O		Lot	Koopmans	St Andrews University	Microbial Morphologies through the Eyes of the Exomars Close-Up Imager
Ē		Mara	Leite	Westminster University	Analysis of human-commensal microbes at a Mars Analog habitat
>		Meteorites &	sample return		Authors at posters : Monday afternoon
qa		Lukas	Adam	Leicester University	The Challenges of Basic Characterisation of Mars Material under Containment
Jon		Evangelos	Christou	Glasgow University	Martian alteration vs terrestrial contamination in the apatite of the unique Martian meteorite NWA 8159
ay N	_	Jack	Piercy	Leicester University	Carbonate precipitation and dissolution in Lafayette and its effects on the evolution of the Nakhlite fluid
ispl	room	Paul	Schofield	NHM	Constraining the nature of water: Rock interaction in Nakhlites using trace element signatures of alteration minerals
ס		Enrica	Bonato	NHM	The effect of metamorphic heating on the organic matter and amorphous silicates in CO chondrites
ers:	Lee	Pierre-Etienne	Martin	Glasgow University	Petrological Characterization of the Carbonaceous Chondrite Aguas Zarcas: Implications for Understanding Asteroid Ryugu
ost	ins	Natasha	Almeida	NHM	Relict Forsterite in Unequilibrated Enstatite Chondrites
\leftarrow	Simpkins	Helena	Bates	NHM	Thermal Infrared Spectral Signature of Aqueously and Thermally Metamorphosed CM and CY Chondrites
Group	Sin	Mariana (Sabrina)	Troncoso	Manchester University	Primary and Secondary Features of Chondrules and Refractory Inclusions in the Anomalous CM Chondrite Nwa11346: Insights into Early Solar System Alteration of CM C-Chondrite Asteroids
20		Benjamin	Farrant	Manchester University	Noble Gas and Halogen Behaviour During Impact Melt Processing in the Early Inner Solar System
		Sammy	Griffin	Glasgow University	Assessing the relationship between crystal orientation and shock in the Yamato nakhlites
		Robert	Steele	St Andrews University	Chondrule formation and mixing in the early Solar System: insights from Ni isotope compositions of chondrules
		Ross	Findlay	Open University	Investigating Oxygen Isotope Heterogeniety in CM Carbonaceous Chondrite Regolith Breccias

BPSC 2020 - POSTER PROGRAMME - GROUP 2

		Surface & Interiors			Authors at posters : Tuesday pm
& Wednesday		Peter	Fawdon	Open University	Continuing Characterization of Oxia Planum, the Landing Site for the Exomars Rosalind Franklin Rover
		Zach	Dickeson	NHM	Topographic and Morphological Study of a Potential Palaeolake and Drainage System in the Oxia Planum Catchment
<u>e</u>		Amelie	Roberts	St Andrews University	Buried and Degraded Impact Craters in Oxia Planum, Mars
'edn	⊑	Roger	Stabbins	NHM	Hematite through the eyes of the ExoMars 2020 Rover <i>Rosalind Franklin</i> : Simulating mineral identification with the <i>PanCam WAC</i> multispectral filters
≥	room	Robert	Seidel	Open University	Hydrothermal Alteration in the Frankenstein Gabbro Martian Analogue: First Models
Ø	9	Jack	Wright	Open University	Geological Mapping of Mawrth Vallis, Mars: First Look
	a l	Joe	McNeil	Open University	The Nature of Remnant Rounded Mounds North of The Exomars 2020 Landing Site
oou.	s Lee	Melissa	Mirino	Open University	A morphological classification to facilitate a comparison between Martian and Terrestrial inverted channels.
e	Ë	Jacqueline	Campbell	UCL/MSSL	The Search for Organic Signatures within Dynamic Features on the Martian Surface
£	ď	Neil	Arnold	Cambridge	Modelling Esker Formation on Mars
Tuesday afternoon	Simpkins	Benjamin	Fernando	Oxford University	High-frequency modelling of the effects of 3D crustal structure and atmospheric sources detected by InSight on Mars
SC		Natalia	Wojcicka	Imperial College, London	Seismic Moment and Efficiency of Small Impacts on Mars
ne		Donald	Bowden	Leicester University	Plutonic Igneous Float Rocks at Ireson Hill, Gale Crater, Mars
		Edward	Baker	Oxford University	Crystallization of a model silicate Moon
e e		David	Pegg	Open University	Geological Mapping of the Debussy Quadrangle (H-14) of Mercury
d		Chris	Malliband	Open University	1:3M Geological mapping of the Derain (H-10) quadrangle of Mercury
<u>:</u>		Benjamin	Man	Open University	Geological Mapping of the Neruda Quadrangle (H-13), Mercury
70		Mark	Nottingham	Manchester University	Apollo 12 Regolith Cosmic Ray Exposure Ages
posters: display	<u>_</u>	Missions, Fac	ilities, Tools		Authors at posters : Wednesday am
ţ	Ye	Elyse	Allender	St Andrews University	Multiscale and Multispectral Mars Analogue Observations in Preparation for Exomars 2020
OS	Ó	Amy	Dugdale	Open University	Development of Oxia Planum Simulant Relevant to Exomars Mission
	5	Thomas	Harvey	Manchester University	Photogrammetry for creating high fidelity 3-D models of geological and meteorite samples
Group 2	Martin Wood Foyer	Sara	Motaghian	NHM	The First Look at Mars with PanCam: ExoMars2020 spectral instrument suite emulator data of Martian Meteorites
ō	>	Luke	Daly	Glasgow University	Gearing Up for Hayabusa 2: Establishing Atom Probe Tomography for Analysis of Ryugu Samples
G	Ë	Mark	Burchell	Univ. of Kent at Canterbury	Hypervelocity Impact Facility - University Of Kent
	T.	James	McKevitt	Loughborough University	ASTrAEUS: Aerial-Aquatic Titan Mission Profile
	S	Michael	Johnson	Imperial College, London	In-Situ manufacturing of software defined spacecraft
		Manish	Patel	Open University	BEERS: Benefits of the ESA Exploration Roadmap in Socioeconomics