<u>UK Solar System Planetary Atmospheres Meeting 2020</u> February 14th 2020

February 14th 2020 Royal Astronomical Society

10:00-10:30 Arrival - Tea/Coffee at the RAS; Poster Viewing

Programme Overvie	ew:
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10:00-10:30	Arrival - Tea/Coffee at the RAS; Poster Viewing	
10:30-13:00	Session I: Outer Solar System	
13:00-14:00	Lunch (Not Provided); Poster Viewing	
14:00-15:30	Session II: Inner Solar System	
15:30-16:00	Tea @Geological Society	
Session I: Outer Solar System (Chair: Naomi Rowe-Gurney)		
10:30-10:35	Welcome to the UKSSPA Meeting	
	Leigh N. Fletcher (University of Leicester)	
10.25 11.00	[low the d] to eith. Forelangting of Circle Blanch Atmospheres	
10:35-11:00	[Invited] In situ Exploration of Giant Planet Atmospheres	
	Olivier Mousis (Laboratory of Astrophysics of Marseille)	
11:00-11:12	Cosmic ray ionization of Ice Giant atmospheres	
11.00 11.12	Karen Aplin (University of Bristol)	
	Karen Apini (Oniversity of Bristor)	
11:12-11:24	The role of deep jets in bringing order to Jupiter's polar regions	
	Stephen Thomson (University of Exeter)	
11:24-11:36	Synergy between Juno and amateur observations of Jupiter: The Great Red	
	Spot as an example	
	John Rogers (British Astronomical Association)	
11:36-11:48	Temperature and aerosol variability during Jupiter's 2006-07 Equatorial Zone	
	Disturbance	
	Arrate Antunano (University of Leicester)	
11:48-12:00	Evaluring alouds and composition of los Ciants in the visible (near ID	
11:48-12:00	Exploring clouds and composition of Ice Giants in the visible/near-IR Patrick Irwin (University of Oxford)	
	ratrick it will (Offiversity of Oxford)	
12:00-12:12	Investigating the Ice Giants with James Webb Space Telescope during GTO	
12.00 12.12	Naomi Rowe-Gurney (University of Leicester)	
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12:12-12:24	Characterization of the vertical distribution of C2N2 in Titan's stratosphere	
	Melody Sylvestre (University of Bristol)	
12:24-12:40	Poster Presentations (60s each, single slide)	
	Sub-Chair: Leigh Fletcher	
12:40-13:00	[Invited] Exploring Planetary Atmospheres: A Retrospective	
	Fred W. Taylor (University of Oxford)	

Session II: Inner Solar System (Chair: Arrate Antunano)

14:00-14:26	[Invited] Observing the atmosphere of Mars with the InSight lander Aymeric Spiga (Laboratoire de Météorologie Dynamique)
14:26-14:38	The dynamics of Mars's annular polar vortices William Seviour (University of Bristol)
14:38-14:50	Assimilation of Mars Satellite Observations with a Mars GCM James Holmes (Open University)
14:50-15:02	On the Photochemistry of Methane and Ethane in the Martian Atmosphere: Towards Indirect Detection of Methane Emissions Ben Taysum (University of Edinburgh)
15:02-15:14	Ares - An atmospheric retrieval system for the ExoMars Trace Gas Orbiter George Cann (University College London)
15:14-15:26	The ACS investigation of the Martian atmosphere after 1.5 years in operation Kevin Olsen (University of Oxford)
15:26-15:30	Closing Remarks

Poster Presentations:

- 1. Juan Alday (University of Oxford) Atmospheric science using PanCam, ISEM and FAST on the ExoMars 2020 Rover and Surface Platform
- 2. Jason Sharkey (University of Bristol) *Structure and dynamical evolution of Titan's northern polar vortex*
- 3. Narissa Patel (Open University) Distribution of Subsurface Carbon Dioxide Ice at Different Obliquities
- 4. Paul Streeter (Open University) Martian Polar Vortex Dynamics and the 2018 Global Dust Storm
- 5. Nicholas Heavens (Space Science Institute) A Multiannual Record of Gravity Wave Activity in Mars's Lower Atmosphere from On-Planet Observations by the Mars Climate Sounder
- 6. Lori-Ann Foley (Open University) Climate change and the water cycle on Mars
- 7. Amethyst Johnson (University of Manchester) Modelling aerosol charging in the lower atmosphere of Venus
- 8. James Blake (University of Leicester) Saturn's Seasonal Atmosphere: Cassini CIRS contrasts to VLT and IRTF observations
- 9. Jan Vatant D'Ollone (University of Leicester) Radiative modelling of the Ice Giant atmospheres A first step toward Global Circulation Models

- 10. Alexandru Valeanu (University of Oxford) From spacecraft data to rover measurements Martian atmospheric modelling and observations
- 11. Gregory Colyer (University of Oxford) Semi-grey radiative modelling of Jupiter's atmosphere and clouds
- 12. Kevin Douglas (University of Leeds) *Meteor Ablated Phosphorus as a Source of Bioavailable P to the Terrestrial Planets*