

RAS Specialist Discussion Meeting 9th Oct
 Biosignature identification in habitable martian environments

9.45-10:00	Room open	
10:00-10:08	Welcome (allowing people into meeting)	
Session 1: Searching for biosignatures		
10:08-10:35	Frances Westall (Keynote)	
10:35-10:48	J. L. Vago	Searching for Signs of Life with the ExoMars Rover: Why the mission is how it is.
10:48-11:01	S. McMahon	Biogenicity on Mars
11:01-11:14	A. Azua-Bustos	Inhabited subsurface wet smectites in the hyperarid core of the Atacama Desert as an analog for the search for life on Mars
11:14-11:19	M. C. Michael	Testing the habitability of distinct simulated martian environments
11:19-11:24	A. H. Stevens	Ambiguous biosignatures – the problems of identifying life in past habitable environments on Mars
11:24-11:29	S. Sharma	Simulated reaction networks involved in primitive organic reactions that serve as sources of potential biosignatures
11:29-11:34	Questions and Discussion	
11:34-11:47	F. Foucher	Detection of biosignatures on Mars using Raman spectroscopy
11:47-12:00	M. A. Sephton	Organic reactions and interactions with the minerals of Mars
12:00-12:40	<i>LUNCH</i>	
12:40-12:42	Welcome back	
Session 2: Biosignatures in context		
12:42-12:55	A. Parkes-Bowen	Using CaSSIS imagery to characterise and map the Oxia Planum Clay-bearing unit
12:55-13:08	A. C. O'Brien	Characterising Martian Meteoritic Organic Matter using Liquid Chromatography- Mass Spectrometry
13:08-13:21	M. McHugh	Characterising Carbon in Nakhla Meteorite Analogues using the Raman Laser Spectrometer Simulator
13:21-13:26	S. M. R. Turner	Mineralogy of the Oxia Planum catchment area on Mars
13:26-13:31	G. Cann	Ares Wide search for Organics and Life over Jezero Crater and Oxia Planum
13:31-13:36	A. C. Fox	Position-Specific Isotope Analysis for Identifying Biosignatures in the Geologic Record: Implications for Intramolecular Isotopic Fractionation During Sorption
13:36-13:45	Questions and Discussion	
13:45-13:55	<i>BREAK</i>	
Session 3: Instruments and Exploration		
13:55-14:08	H. N. Lerman	Raman spectroscopy on Mars: organics sensitivity levels
14:08-14:21	C. Schröder	Iron-rich X-ray amorphous material as a target to look for potential organic biosignatures
14:21-14:34	D. P. Glavin	The search for chiral asymmetry as a potential biosignature in samples from mars
14:34-14:39	J-P. de Vera	Lessons learned about biosignature research in Low Earth Orbit and in sediments and its relevance for Life detection missions within Martian sedimentary basins
14:39-14:44	I. Hutchinson	Bio-signature detection with the ExoMars Raman Laser Spectrometer (RLS)
14:44-14:49	R. B. Stabbins	Exploring the limits of VNIR Spectral Imaging of Natural Environments through End-End Simulations
14:49-14:54	M. Ángel Fernández-Martínez	The comprehensive 'MICRO-life detection platform' applied to in situ research at Mars and Icy Moons terrestrial analogs
14:54-15:00	Questions and Discussion	
15:00-15:28	Roger Wiens (Keynote)	
15:28-15:30	Thank you and Close	
15:30-16:00	Networking	
16:00 – 17:00	Ordinary meeting	

Please note all times are in reference to GMT+1.

Withdrawn Flash Talk - J. D. Campbell - Laboratory analogues for comparison with CRISM observations for detection of polycyclic aromatic hydrocarbons on Mars

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Oral presentations (blue) have been allotted 13 mins each, 10 mins for your presentation, 2 mins for questions and 1 min for changing over speakers.

Flash talk presentations (yellow) have been allocated 5 mins, 4 mins for your presentation and 1 minute to change between speakers. These presentations should be used to convey a key message or idea from your work. We suggest using 2-3 slides to help do this.

Questions and Discussion sessions have been added to provide additional time to ask questions to all session speakers or to discuss ideas and concepts that have been presented throughout the day.