

Program:

<p>5th Annual Workshop of the Deutsche Astrobiologische Gesellschaft e.V. (DAbG)</p> <p>27 – 29 September 2021</p> <p>Universität Duisburg-Essen</p>			
<p>Monday 27 September</p>			
<p>From 11:00: Registration of participants</p>			
<p>13:00: Opening Session</p>			
13:00	Opening of the Workshop and logistics	Dirk Schulze-Makuch Stefan Fox Henry Strasdeit Jean-Pierre de Vera Dirk Wagner	Members of the Executive Board of the DAbG
13:15	Welcome address	Christian Mayer	Fakultät für Chemie, Physikalische Chemie
<p>Keynote Lecture</p>			
<p>Chair: Dirk Schulze-Makuch</p>			
13:30	Jesús Martínez-Frías	Mars: Water, Earth, analogs and current missions	
<p>Session 1: Extremophiles</p>			
<p>Chair: Christian Mayer</p>			
14:30	Johanna Piepjohn	From Mars analogue environments to space: ground data evaluation of the survivability of <i>Buttiauxella</i> sp. MASE-IM-9 and <i>Salinisphaera shabanensis</i>	
15:00	Armando Alibrandi	Microbial Anaerobic Hydrocarbon Degradation in Oil Reservoirs	
15:30	Bettina Siebers	Lipid and fatty acid metabolism in the thermoacidophile <i>Sulfolobus acidocaldarius</i>	
16:00	Coffee Break		
<p>Session 2: DAbG-Mitgliederversammlung</p>			
<p>Chair: Vorstandsmitglieder</p>			
16:30			
19:00	Dinner		

Tuesday 28 September		
Session 3: Habitability		
Chair: Christian Mayer		
9:00	Jacob Heinz	Investigating Perchlorate-Specific Stress Responses in Yeast Cells Using a Proteomic Approach
9:30	Felix Leo Arens	Habitability of nitrate-rich salt crusts in the hyperarid Aracama Desert, Chile
10:00	Panagiotis S. Adam	A song of steam and fire. How Archaea have shaped hydrogen and methane metabolism for 4 billion years
10:30 Coffee break		
Session 4: Space Experiments and Biosignatures		
Chair: Jean-Pierre de Vera		
11:00	Max Riekeles	Development of a microscopic life detection system for Mars
11:30	Lea Janssen	An algorithm for the autonomous detection of microbial motility for the purpose of life detection
12:00	Clemens Espe	Aixelerate - A new concept of a earth-bound micogravity platform
12:30	Clemens Espe	TRIPLE-IceCraft - a retrievable melting probe for transporting scientific payloads
13:00 Lunch break		
Session 5: Prebiotic Chemistry		
Chair: Henry Strasdeit		
14:00	Jan Hendrik Bredehöft	A new look on an old comet
14:30	Christian Mayer	Spontaneous structural developments in a peptide-vesicle system
Session 7: Exoplanets		
Chair: Jean-Pierre de Vera		
15:00	Iva Vilovic	Exploring Habitability: Testing Theories of Superhabitable Exoplanets
15:30	Dirk Schulze-Makuch	The astrobiological potential of rogue planets
Biosignatures and the search for extraterrestrial life: where we started and where we are		
16:00 Coffee Break		
Session 6: Discussion Panel on Space Mission Strategies		
Chair: Jean-Pierre de Vera		
16:30		
18:00 Poster Viewing		

Wednesday 29 September		
Keynote Lecture		
Chair: Henry Strasdeit		
10:00	Frances Westall	Biosignatures and the search for extraterrestrial life: where we started and where we are
11:00	Award Ceremony	
11:30	Final Remarks	

Poster Presentations:

P-01. Alexander Engel et al.: The photochemistry of amino acids – a brief overview

P-02. Dominik Horký et al.: Preservation of carotenoids in salts and Mars regolith in various conditions

P-03. Daniel Lörch et al.: Thin film preparation for UV irradiation experiments

P-04. Christian Mayer et al.: Experimental evolution of functional vesicles in hydrothermal environments

P-05. Bruno Pavletic et al.: Adsorption of the model RNA virus bacteriophage MS2 to the EAC's lunar dust simulant EAC-1 – a space virological challenge?

P-06. María J. Dávila et al.: Membrane structure obtained in an experimental evolution process

The posters will be on display throughout the entire Workshop.