

Media Tips by Date

The following is a list of potentially newsworthy research selected by AGU's public information office:

Monday, June 24

Talk	Habitability of Planets and Moons in Binary and Higher Order Systems	11:00 AM Auditorium
Talk	Obliquity Variations and Habitability in Alpha Centauri AB	11:15 AM Auditorium
Talk	On the habitability of eccentric planetary S-type motion in binary stars	11:25 AM Auditorium
Talk	Gaseous Biosignatures on Anoxic Exoplanets: The Curious Case of Phosphine	11:30 AM Cedar Ballroom
Talk	Habitable Environments Surrounding Moderately Close Binaries	11:45 AM Auditorium
Talk	Climate Extremes and Habitability Constraints for Circumbinary Planets	11:55 AM Auditorium
Talk	Incorporating Lessons from Geoarchaeology and Geoforensics into the Search for Non-Terrestrial Agnostic Biosignatures	12:00 PM Cedar Ballroom
Talk	Age of Enceladus and its ocean	1:30 PM Regency EFG
Talk	Wind-driven Ocean Circulation on Tidally Locked Aqua-planets	2:45 PM Regency EFG
Talk	(How) Do oceans overturn on other worlds?	3:00 PM Regency EFG
Poster	The Acetylene-Butane Co-Crystal: A Potentially Abundant Molecular Mineral on Titan	7:00 PM Evergreen Ballroom
Poster	Assessment of Isoprene as a Possible Biosignature Gas in Exoplanets with Anoxic Atmospheres	7:00 PM Evergreen Ballroom
Poster	Unlocking Europa's Ocean	7:00 PM Evergreen Ballroom
Poster	Analysis of Human-commensal Microbes at a Mars Analog Habitat	7:00 PM Evergreen Ballroom
Poster	Expression of dsrAB in Desulfotalea psychrophila Subjected to Simulated Martian Conditions.	7:00 PM Evergreen Ballroom
Poster	White Dwarfs and Icy Worlds - Evolving Habitability	7:00 PM Evergreen Ballroom
Poster	Testing methods to detect 3D vegetation structure on exoplanets	7:00 PM Evergreen Ballroom

Poste	A cold and alkaline Hadean ocean resulted from carbonate-silicate geochemical cycle	7:00 PM Evergreen Ballroom
Poste	Ocean ventilation, nutrient cycling, and oxygen-based biosignatures on exoplanet waterworlds	7:00 PM Evergreen Ballroom
Poste	Quantifying the Atmospheric Response of Earth-like Planetary Bodies to Varying Levels of Stellar EUV/UV	7:00 PM Evergreen Ballroom
Poste	High Gas Concentrations in Enceladus' Ocean, Potential Fuel for Microbial Life	7:00 PM Evergreen Ballroom
Poste	Nature, distribution and origin of CO2 on Enceladus	7:00 PM Evergreen Ballroom
Poste	Modeling the Stellar Flux of Circumbinary Planets	7:00 PM Evergreen Ballroom
Wedn	esday, June 26	
Talk	Comets as Tracers of the Origin and Evolution of Volatiles throughout the Solar System	10:15 AM Cedar Ballroom
Talk	Cognitive Planetary Transitions: An Astrobiological Perspective on the "Sapiezoic Eon".	10:15 AM Auditorium
Talk	Intelligence as a planetary process	10:30 AM Auditorium
Talk	The Coupled History of Planets and Civilizations.	11:05 AM Auditorium
Talk	Oxygenation of the 2.2 Ga Deep Ocean: Evidence from Birimian Greenstone Belt, Ghana	11:45 AM Regency EFG
Talk	The Devonian Plant Revolution: Roots, Weathering and the Impact on Global Biogeochemical Cycling	12:00 PM Regency EFG
Talk	Autonomous synthesis and boot-up from a homogeneous chemical mixture of populations of giant vesicles showing birth, growth, self-replication, extinction and competition cycles	2:15 PM Grand IJ
Talk	<u>Dissipation, Biosignatures and Technosignatures: A Planetary</u> <u>Classification</u>	2:52 PM Cedar Ballroom
Talk	Biochemical and Bioinformatic Insights into the Metabolism of Spacecraft Cleaning Agents	3:00 PM Auditorium
Talk	Oceans Across Space and Time: Windows into Ocean World Evolution	5:15 PM Auditorium

Talk	Microbial communities and impact enhanced habitats in the Chicxulub	5:45 PM	Regency ABC		
	impact crater				
Talk	The Energetic Habitability of Enceladus may be Tenuous	5:45 PM	Auditorium		
Talk	Collective cognition in the arms of the octopus	6:00 PM	Regency EFG		
Poster	Spectral Kurtosis Identification of Deep-Space Technosignatures	7:15 PM	Evergreen Ballroom		
Poster	Nanosecond Freezing of Water at High Pressures Relevant to	7:15 PM	Evergreen Ballroom		
	Astrobiology				
Poster	Oxidation of the Interiors of Carbide Exo-Planets	7:15 PM	Evergreen Ballroom		
Poster	Towards Creation of a U-DNA Genome Using Synthetic Biology Tools	7:15 PM	Evergreen Ballroom		
Poster	Spontaneous emergence of chirality and chiral domains in proto- nucleobase assemblies: Implications for the origin of bio-homochirality	7:15 PM	Evergreen Ballroom		
Poster	A limited habitable zone for complex life	7:15 PM	Evergreen Ballroom		
Poster	Extra-large and morphologically unique microfossils of the 2.52 Ga	7:15 PM	Evergreen Ballroom		
	Gamohaan Formation, South Africa				
Poster	The Mammalian Immune System Recognizes and Responds to Peptides	7:15 PM	Evergreen Ballroom		
	containing Rare Amino Acids found on Meteorites				
Poster	De novo Origins of Multicellularity in Response to Predation	7:15 PM	Evergreen Ballroom		
Poster	Rock-water interactions on icy ocean worlds as a mechanism for	7:15 PM	Evergreen Ballroom		
	production of chemical energy to support life		0 11		
Poster	Exo-oceanography and the Search for Life in Uncharted Waters	7:15 PM	Evergreen Ballroom		
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Poster	Ocean Planets on Eccentric Orbits: Effects of Rotation Rate on	7:15 PM	Evergreen Ballroom		
	<u>Observables</u>				
Thursday, June 27					
Talk	Competition and Cooperation at the Uppermost Temperature Limits to	11:00 AM	Auditorium		
	<u>Life</u>				
Talk	An in vitro approach to the geochemical, protocellular, and genomic environments of early evolution	11:15 AM	Grand IJ		

Talk <u>A 4D Perspective on Aerobic Subsurface Habitats on Mars and How to Search for Them</u> 4:00 PM Regency ABC

Friday, June 28

Talk	Fungal Spore Resistance to Space Radiation	10:15 AM Cedar Ballroom
Talk	Catabolisms 'Missing in Nature'	1:30 PM Grand IJ
Talk	Iron-Sulfur Deposits Could Indicate Ecological Niches of the Extant Martian Life	2:15 PM Grand IJ
Talk	Salts in Gale Crater, Mars: Constraining Habitable Ancient Lake and Groundwater Environments	2:45 PM Regency EFG