















HABITABILITY

QUICK-LOOK PROGRAM

8th CHIANTI TOPICS INTERNATIONAL FOCUS WORKSHOP

14:00 – 16:30 Registration

@ Osservatorio Polifunzionale del Chianti

16:30 – 18:00 Pre-Conference Gathering & Chianti Wine

Experience

@ Fattoria Montecchio





10:00 – 13:00 Registration

14:30 – 14:45 Welcome to the Chianti Topics Workshop

Session 1 - Habitability: Habitable Zone and beyond I

14:45 Ravi Kumar Kopparapu (invited)

15:30 Lorenzo Biasiotti

16:05 Coffee Break

Session 2 - Habitability: Habitable Zone and beyond II

16:45 Marco Marcellino

17:20 Matteo Simonetti

17:55 Alfredo Biagini

18:30 Welcome Drink





Session 3 - Future space missions: search of life in the Solar System and beyond I

09:00 Lee Feinberg (invited) 09:45 Sascha Quanz (invited)

10:30 Coffee Break

Session 4 - Future space missions: search of life in the Solar System and beyond II

11:10 Romain Laugier

11:45 Beatrice Gorga

12:20 Federico Colaiuta

13:00 Lunch

Session 5 - Future space missions: Experimental studies & challenges I

14:30 Andrea Bocchieri

15:05 Francesca Vitali

15:40 Lorenzo Biasiotti

16:15 Coffee break

Session 6 - Future space missions: Experimental studies & challenges II

16:45 Camilla Pezzotti

17:20 Janina Hansen

17:55 Andrea Bocchieri

20:00 Social dinner





Session 7 - Biosignatures I

09:00 Silvia Pagnoscin (invited)

09:45 Runa Briguglio

10:20 Coffee break

Session 8 - Biosignatures II

11:00 Francesca Furnari

11:35 Michele Maris

Session 9 - Technosignatures

12:10 Svetlana Berdyugina (invited)

13:00 Lunch

Round table

14:30 Perspectives on «Habitability» Science

16:00 End of the Workshop





















HABITABILITY

DETAILED PROGRAM

8th CHIANTI TOPICS INTERNATIONAL FOCUS WORKSHOP

Wednesday 4 June

10:00 – 13:00 Registration 14:30 – 14:45 Welcome

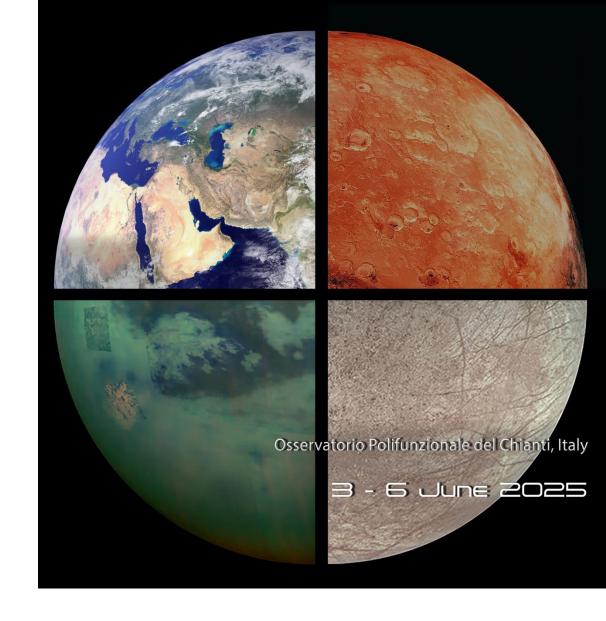
Session 1 - Habitability: Habitable Zone and beyond I

14:45 – 15:30	Ravi Kumar Koppa	arapu	Habitable Zone and Be	yond	(invited)
15:30 – 16:05	Lorenzo Biasiotti	Potential of	,	on eco	centric worlds: the case of GL514b and

Coffee break

Session 2 - Role of Small Telescopes in top science

16:45 – 17:20	Marco Marcellino	Beyond habitability: How extremophiles shape our understanding of life's potential
17:20 – 17:55	Matteo Simonetti	A new energy balance model to map the habitability of rocky, tidally locked planets: Application to the Ariel target list
17:55 – 18:30	Alfredo Biagini	A reanalysis of the LHS 1140b atmosphere observed with the Hubble Space Telescope
18:30	Welcome Drink	



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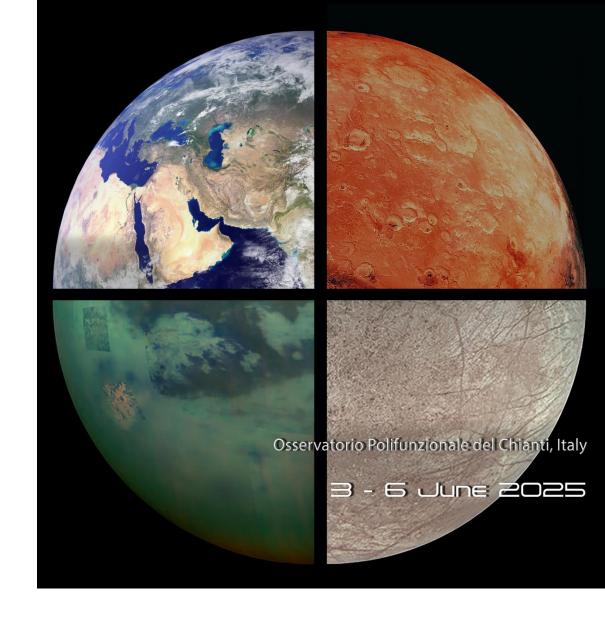
HABITABILITY

Thursday 5 June

Session 3 - Future :	space missions: sea	rch of life in the Solar System and beyond I		
09:00 – 09:45	Lee Feinberg	(invited) Advancing the Concept Maturity and Technology of the Habitable Worlds Observatory (HW009:45		
09:45 – 10:30	Sascha Quanz	(invited) The large interferometer for exoplanets (LIFE) - a space mission designed to search for life outside the solar system		
	Coffee Break			
Session 4 - Future space missions: search of life in the Solar System and beyond II				
11:10 – 11:45	Romain Laugier	Arguments and proposition for a joint HWO-LIFE data challenge and the nulling interferometry data standard to support it		
11:45 – 12:20	Beatrice Gorga	Radiometric performance model for a notional imaging spectrometer as part of the Uranus flagship mission		
12:20 – 12:55	Federico Colaiuta	Evaluating lunar surface chemistry with a Python routine: Mairan crater as a test case for ISRU in future Artemis missions		
13:00	Lunch			
Session 5 - Future :	space missions: Exp	perimental studies & challenges I		
14:30 – 15:05	Andrea Bocchieri	Ariel-IT end-to-end exercise from the astrophysical scene to planetary spectra: simulations and retrieval		
15:05 – 15:40	Francesca Vitali	Experimental study of the interference dips observed on the Collision-induced Absorption fundamental band of H2: their relevance to planetary atmosphere characterization		
15:40 – 16:15	Lorenzo Biasiotti	The impact of extreme space weather events on Earth's climate and habitability		
	Coffee break			
Session 6 - Future :	space missions: Exp	perimental studies & challenges II		
16:45 – 17:20	Camilla Pezzotti	The activity-rotation-age relationship under the lens of asteroseismology		
17:20 – 17:55	Janina Hansen	Detecting atmospheric CO2 trends as population-level signatures for long-term stable water oceans and biotic activity on temperate terrestrial exoplanets		
17:55 – 18:30	Andrea Bocchieri	ExoNAMD: a community tool to gauge multi-planetary systems		

Social dinner @ Osservatorio Polifunzionale del Chianti

20:00



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HABITABILITY

Friday 6 June

Session 7 - Biosignatures |

09:00 – 09:45 Silvia Pagnoscin (invited) Biosignatures: Traces of Life Across the Solar System

09:45 – 10:20 Runa Briguglio WaveFront sensing and control for high contrast in space: R&D at INAF, from LBT to

HW0

Coffee break

Session 8 - Biosignatures II

11:00 Francesca Furnari Spectroscopic measures of hydrated sulfate as a relevant planetary analogue for

Jupiter's icy moons

11:35 Michele Maris Linking the prediction of biosignatures observability with climate models: the case of

refraction and photosynthetic habitability for M stars planets

Session 9 - Technosignatures

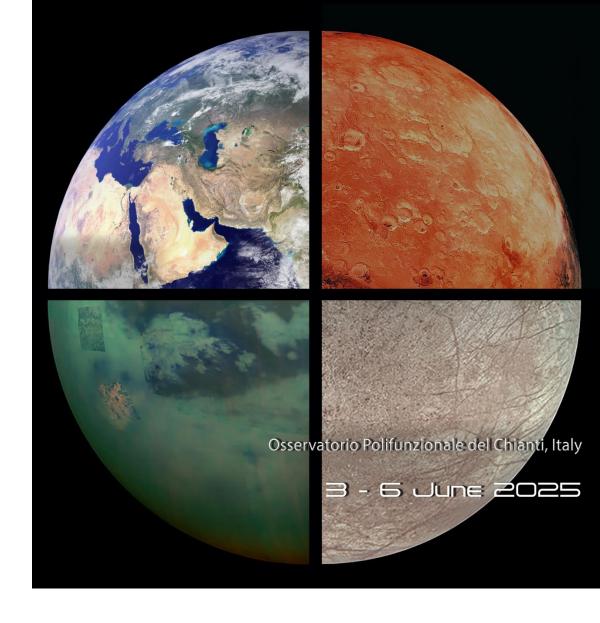
12:10 Svetlana Berdyugina (invited) Life in the Universe: from Bio to Techno

13:00 Lunch

Round table

14:30 Perspectives on «Habitability» Science

16:00 End of the Workshop



8th CHIANTI TOPICS INTERNATIONAL FOCUS WORKSHOP **HABITABILITY**

The Scientific Organising Committee The Local Organising Committee wish to THANK YOU for attending the 8th Chianti Topics International Focus Workshop "Habitability" and invite you to visit the workshop website

http://chiantitopics.it

to get further information, presentations, and video-proceedings. All the presentations will be published on the Workshop Website unless consent is expressly denied













