



BE IN TIME ON
MARS

Summer School - Alghero - June 5-9 2023

**Complesso Santa Chiara
Aula Santa Croce
07041 Alghero (Sardinia, Italy)**



Co-funded by the Horizon 2020 programme of the European Union



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UNIVERSITÀ DEGLI STUDI DI SASSARI



Alma Sistemi s.r.l.
consulting for space



Summer School

Alghero (Italy), June 5-9, 2023
 Complesso Santa Chiara. Aula Santa Croce
 Five Research days:
 Space and Mars exploration- Field Trip -
 Luminescence

Monday, Jun. 5 SCIENCE DAY

- | | |
|---------------|--|
| 9.30 - 10.00 | Welcome and introduction - Vincenzo Pascucci <i>UNISS (Italy) / Alessio Di Iorio</i> <i>ALMA (Italy)</i> |
| 10.00 - 10.40 | Keynote Enrico Flamini <i>NASA-ESA-ASI-UNICH (Italy)</i> : State of the Art in Planetary Missions |
| 10.40 - 11.00 | Lucia Marinangeli <i>UNICH (Italy)</i> : Mars mission results |
| 11.00 - 11.20 | Jose Luis Vazquez-Poletti <i>UCM (Spain)</i> : Next generation computing for the next generation Martian missions |
| 11.20 - 11.50 | Coffee break |
| 11.50 - 12.30 | Keynote Valentina Galluzzi <i>INAF-IAPS (Italy)</i> : Planetary Geology |
| 12.30 - 13.10 | Keynote Alessandro Angione <i>POLIBA (Italy)</i> : Space Architecture |
| 13.10 - 15.00 | Lunch break |
| 15.00 - 15.20 | Alessio Di Iorio <i>ALMA (Italy)</i> : Miniaturized instrument development |
| 15.20 - 15.40 | Roberto Filippone <i>ALMA (Italy)</i> : Miniaturized instrument development |
| 15.40 - 16.00 | Daniele Sechi <i>UNISS (Italy)</i> : Portable Luminescence dating: where it has been and where it is going |
| 16.00 - 16.30 | Coffee break and opening of the exhibition of paintings <i>The Science in the Art</i> by Giuseppe Ciani curated by Vincenzo Pascucci |
| 16.30 | General Assembly |



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Tuesday, Jun. 6 SEDIMENTARY ENVIROMENTS OF MARS AND EARTH

- 10.00 - 10.20 **Elizabeth Catlos** *UTexas at Austin (USA)*: Basic problems of dating terrestrial impact craters: example from the formation of the Ames Astrobleme, Oklahoma, USA
- 10.20 - 11.00 Keynote **Monica Pondrelli** *UNICH (Italy)*: Variations of sedimentary environments in Arabia Terra for future landing sites and potential for luminescence
- 11.00 - 11.20 **Marcello Coradini** *S3 (Cyprus)*: Paleo Lakes and Paleo Rivers: source of sediments on Mars
- 11.20 - 11.50 Coffee break
- 11.50 - 12.10 **Simone Silvestro** *INAF (Italy)*: Aeolian bedforms on Mars
- 12.10 - 12.30 **Vincenzo Pascucci** *UNISS (Italy)*: Martian analogue depositional systems on Earth
- 12.30 - 12.50 **Stefano Andreucci** *UNICA (Italy)*: Depositional system in Alghero: geological field trip preview
- 13.00 - 15.00 Lunch break

Tuesday, Jun. 6 DISCLOSURE AFTERNOON - Open to Public

- 15.00 - 15.20 **Paola Deiana**: Greetings
- 15.20 - 15.40 **Myriam Stelletti** *UNISS (Italy)*: Mars Curiosity
- 15.40 - 16.20 keynote **Giacomo Cao** *DASS (Italy)*: Distretto AeroSpaziale della Sardegna
- 16.20 - 16.50 Coffe break
- 16.50 - 17.30 keynote **Sergio Poppi** *INAF-OAC (Italy)*: Sardinia Radio Telescope
- 17.30 - 17.50 **Giovanni Luca Cardello** and **Domenico D'urso** *UNISS (Italy)*: Exploring the physics and the geology of the Einstein Telescope candidate site of Sardinia (Italy)
- 18.00 **Martian happy hour** at Movidà Bar Bastioni Magellano (Alghero)



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Wednesday, Jun. 7 GEOLOGICAL FIELD TRIP

- 9.00 Meeting point: Carlos V (Alghero)
 Stop 1: Quintilio (Alghero)
 Stop 2: spiaggia del Cantaro (Alghero)
 13.30 Lunch break
 Afternoon: Free

Thursday, Jun. 8 LUMINESCENCE DAY

- 9.30 - 10.10 keynote **Reza Sohbat** *DTU (Denmark)*: Trapped charge photo and thermochronometry: recent advances and future perspectives
 10.10 - 10.30 **Giulia Cossu** *UNISS (Italy)*: Surface dating
 10.30 - 10.50 **Stefano Andreucci** *UNICA (Italy)*: How k-feldspar post-IR IRSL become the most used dating method of luminescence
 10.50 - 11.20 Coffe break
 11.20 - 12.00 keynote **Laura del Valle Villalonga** *UIB (Spain)*: Pleistocene deposits of Pityusic Islands: Architecture, luminescence and paleoclimatics implication
 12.00 - 12.20 **Daniele Sechi** *UNISS (Italy)*: Airborn dust and loess deposits formation, on the trace of past climate changes
 12.20 - 12.40 **Vincenzo Pascucci** *UNISS (Italy)*: Luminescence on Martian analogues on Earth - Lanzarote
 12.40 - 14.30 Lunch break
 14.30 Departure from Alghero to Sassari
 15.00 - 17.00 Visit the **UNISS Luminescence Laboratory**
 21.00 Social dinner in Alghero



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Friday, Jun. 9	CHI HA PAURA DEL BUIO AND PHD STUDENTS WORKSHOP
9.40 - 10.20	Alessio Di Iorio <i>ALMA (Italy)</i> : Luminescence technique for archeology
10.20 - 10.40	Myriam Stelletti <i>UNISS (Italy)</i> : Is luminescence an useful tool for dating Martian analogue?
10.40 - 11.00	Giulia Laura Faedda <i>UNISS (Italy)</i> : Are fossil insect nests a valid paleoclimatic indicator? The example of the Lanzarote oothecae
11.00 - 11.20	Federica Perazzotti <i>IUSS (Italy)</i> : Paleoclimates and luminescence study of Upper Pleistocene deposits in Mallorca Islands
11.20 - 11.50	Coffe break
12.00 - 13.30	Matteo Miluzio e Filippo Bonaventura <i>Chi ha paura del buio?</i> Conferenza-spettacolo

Be In-Time on Mars Summer School is open to everybody and it is tuition-free.
It will be held in presence and online at the following link:
<https://teams.live.com/meet/9460708298614>

Deadline to sign up for the geological field trip: Jun. 2

To register and/or request information please contact:

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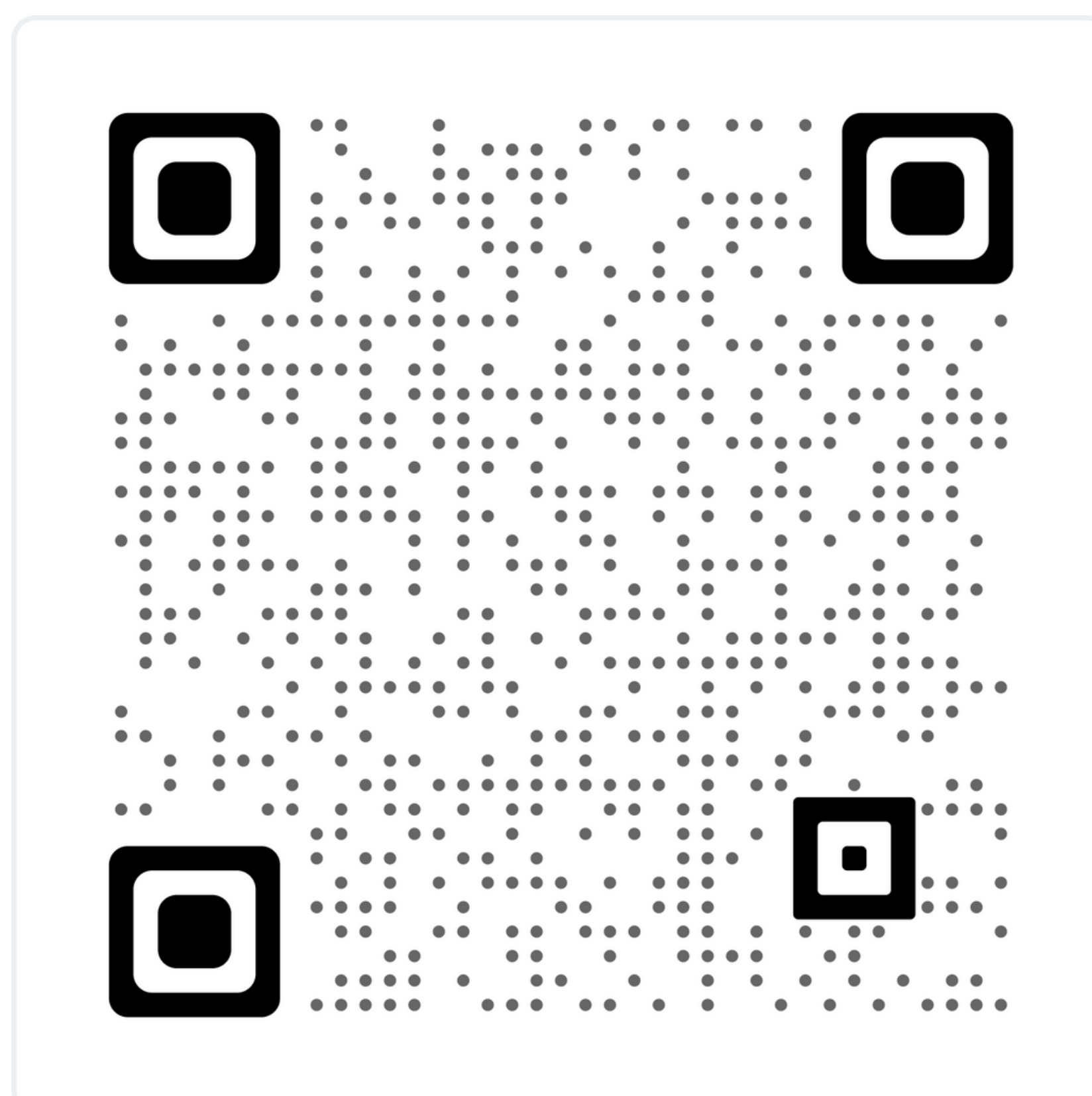
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IN-TIME MSCA RISE project
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Program link