

HUMAN ANALOG MISSIONS FOR STEM AND INDUSTRY

# SPACE.MINHO

6th - 8th OF JUNE 2024 AT EM-UM



SCHOOL OF MEDICINE  
UNIVERSITY OF MINHO, CAMPUS OF  
GUALTAR, 4710-057 BRAGA, PORTUGAL  
41° 33' 49.177" N  
8° 24' 6.618" W



LinkTree



PORTUGUESE  
SPACE AGENCY

# OUR SPONSORS



THE PIEP – PÓLO DE INOVAÇÃO EM ENGENHARIA DE POLÍMEROS – IS A REFERENCE INSTITUTION IN THE INNOVATION OF THE PRODUCTION SYSTEM THAT SUPPORTS THE INDUSTRIAL NEEDS OF R&D+I, FOR THE DEVELOPMENT OF MULTISECTORAL POLYMER-BASED SYSTEMS AND SOLUTIONS. COMPLIANCE AND COMMITMENT TO ITS MISSÃO OVER MORE THAN TWO DECADES, THE PIEP AT THE LEVEL OF PROVISION OF TESTING AND TESTING SERVICES AND FAULT DIAGNOSTICS, THE DEVELOPMENT OF NEW MATERIALS AND PRODUCTS, PROCESS TECHNOLOGIES AND PRODUCTION TOOLS, TEND TO BE BASED ON THE PROMOTION OF TWO PRINCIPLES OF SUSTAINABLE DEVELOPMENT (CIRCULAR ECONOMY AND ENVIRONMENT), CONTRIBUTING TO THE TRAINING ASPECT, NOT THE DEVELOPMENT OF HUMAN RESOURCES WITH CAPACITY AND EXPERIENCE IN INDUSTRIAL INNOVATION IN THE AREA OF POLYMER ENGINEERING.

# POCUSX

POCUSX IS MORE THAN A MEDICAL TRAINING COMPANY; IT IS A COMMUNITY DEDICATED TO THE PRACTICE OF POINT-OF-CARE ULTRASONOGRAPHY (POCUS) AND THE ADVANCES IT PROVIDES TO MEDICINE. OUR TEAM IS MADE UP OF COMMUNICATIVE, PRACTICAL AND CREATIVE PEOPLE, COMING FROM VARIOUS AREAS SUCH AS MEDICINE, COMMUNICATION, MARKETING, DESIGN AND PEDAGOGY. WE CONFIRM THAT WE ARE NOT ABLE TO COLLABORATE AND SHARE KNOWLEDGE. OUR OBJECTIVE IS TO DEMOCRATIZE ACCESS TO POCUS, TRAINING DOCTORS OF VARIOUS SPECIALTIES. A DOCTOR TRAINED IN POCUS IS A DOCTOR CLOSEST TO HIS PATIENTS, CAPABLE OF PROVIDING FASTER AND MORE ACCURATE DIAGNOSES. WE ARE COMMITTED TO PROVIDING NOT ONLY QUALITY TRAINING, BUT ALSO CONTINUOUS SUPPORT AND RESOURCES TO ENSURE THAT OUR TRAINEES FEEL CONFIDENT IN THEIR CLINICAL PRACTICE.

# PROGRAM

## **JUNE 6<sup>TH</sup> - THURSDAY**

**15H00 - OPENING CEREMONY**

**DR. GONÇALO TORRINHA**

**15H30 - ROUND TABLE**

**NEXT GENERATION EXPLORERS: YOUTH IN ANALOG ASTRONAUT MISSIONS**

**MAURO FRANQUEIRA, FILIPE SENRA, LUCIE RÁČKOVÁ, PEDRO ROSADO**

**16H30 - SOCIAL PROGRAM**

## JUNE 7<sup>TH</sup> - FRIDAY

09H00 - PANEL

BEYOND KÁRMÁN: EXPLORING EXTREME SPACE ENVIRONMENTS

PROF. SUSANA COSTA

[COFFEE BREAK]

10H30 - PLENARY SESSION

SURPRISE SPEAKER

[LUNCH]

14H00 - PANEL

HUMAN PERFORMANCE DURING SPACE ANALOG MISSIONS

PROF. PEDRO MARQUES QUINTEIRO

15H00 - POSTER SESSION

[COFFEE BREAK]

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17H30 - END OF DAY AND SOCIAL GATHERING

## JUNE 8<sup>TH</sup> - SATURDAY

09H00 - PLENARY SESSION

CHASM: BRINGING A COMMUNITY OF ANALOGUE SPACE MISSIONS  
TOGETHER FOR INCREASED PERFORMANCE AND RESEARCH

ELEANORE POLI

[COFFEE BREAK]

11H00 - PLENARY SESSION

CAVING ANALOG MISSION FOR OCEAN, EARTH AND SPACE EXPLORATION -  
THE FIRST ANALOG SPACE MISSION IN PORTUGAL

PROF. RUI MOURA

[LUNCH]

14H00 - WORKSHOPS

[COFFEE BREAK]

17H00 - CLOSING CEREMONY

# WORKSHOPS

## STELLAR SPECTROSCOPY

### HANDS-ON EXPERIENCE IN STAR LIGHT ANALYSIS

JOÃO PAULO VIEIRA, EXECUTIVE DIRECTOR OF THE PLANETARIUM - CASA DA CIÊNCIA - CENTRO CIÊNCIA VIVA DE BRAGA AND PRESIDENT OF ORION.

## THE APOLLO PROGRAM

### ASPECTS OF TRAINING IN PLANETARY ANALOGS FOR MISSION PREPARATION

RUI MOURA, GEOPHYSICIST, PROFESSOR AT THE UNIVERSITY OF AVEIRO, AND THE FIRST PORTUGUESE TO JOIN THE POSSUM PROJECT (POLAR SUBORBITAL SCIENCE IN THE UPPER MESOSPHERE).

## BASIC HEMODYNAMIC ASSESSMENT IN MICROGRAVITY USING ULTRASONOGRAPHY (US)

### INFERIOR VENA CAVA AND CAROTID ARTERY US IN TRENDELENBURG AS A PROXY FOR MICROGRAVITY POWERED BY POCUSX

## THE ROCKETS WORKSHOP

### EXPLORING THE BASICS AND BUILDING MICRO-ROCKETS POWERED BY AEROUN



**BUY YOUR TICKET**

**HERE**