

IAF SPACE EXPLORATION SYMPOSIUM (A3)
Moon Exploration – Part 1 (2A)

Author: Mrs. Nancy Vermeulen
Space Training Academy, Belgium

Mr. Julien Villa-Massone
Moonscape, France

Dr. Michael Waltemathe
Ruhr-University Bochum, Germany
Prof.Dr. Elke Hemminger
Germany

Dr. Sarah Baatout
SCK-CEN, Belgium

Dr. Agata Kolodziejczyk
Analog Astronaut Training Center, Poland

Mr. Marc Heemskerk
Vrije Universiteit Amsterdam, The Netherlands

Ms. Sabrina Kerber
ILEWG "EuroMoonMars", Austria

Mr. Myles Harris
University College London (UCL), United Kingdom

Ms. Borghildur Indridadottir
Iceland

Prof. Bernard Foing
ILEWG "EuroMoonMars", The Netherlands

Mr. Sylvester Kaczmarek
Imperial College London, United Kingdom

SPACE TRAINING AT THE EUROMOONMARS ASTRONAUTICS TRAINING ACADEMY
(EMMATA)**Abstract**

At the EuroMoonMars Astronautics Training Academy (EMMATA) we will train researchers and young professionals in order to prepare them for a possible role in the space industry. In our interdisciplinary programme, we use the knowledge and skillsets related to space travel to add a new dimension to their field of expertise. The EMMATA initiative is based on the expertise of the International Lunar Exploration Working Group (ILEWG) and "EuroMoonMars". The latter is an evolving pilot research programme with a series of instruments, investigations, facilities that are relevant to MoonMars science, astrobiology, technology, habitability, utilization, inspiration, education, physical and mental activities for young professionals and public. EuroMoonMars has organised multiple field campaigns in specific locations of technical, scientific and exploration interest. EMMATA is created on a solid international basis combining existing activities, people, infrastructure and collaborations, and bundling them in a coherent and unparalleled offer. EMMATA will be one of the first organizations mixing theoretical and practical astronautics training in an international setting. Objectives: 1. Practical space training for

young professionals of all disciplines. 2. Contribution to scientific and technological insights in a way that is complementary to what universities and existing research institutions do. 3. Increase the level of consciousness, creating “space ambassadors” that will “spread the word” so contributing to the next level of global human collective consciousness. Human cultural aspects. 4. Enhance business career prospects by capacity building and workforce. 5. Contribute to independent intra-, cross-, multi-, inter- and trans-disciplinary research programmes in collaboration with universities and research institutes worldwide. The EMMATA training Programme consists of the following main blocks: Physical - Mental Training, Scientific - Technical Training, Humanities - Social Science and Management Techniques.

We are at the start of a new era where space related activities and research will become the new normal. Before this step comes to pass, however, solid academic, scientific and technical training is a prerogative. By providing our international astronautics training programme to young professionals, we want to contribute to the preparation of a new generation of scientists. We are convinced that an appropriate training programme will have a positive impact on the space sector and the advancement of human space exploration.