# 4th IAF SpaceLand Workshop

***Savigliano (CN) - Italy, 30 June 2023***

***with the support of CCI Torino***

***APPLICATION FORM***

Welcome to **SpaceLand**, the **1st *European public Microgravity Flight Port***, for the ***4th IAF SpaceLand workshop***

***What and where***

Nested between the gorgeous Alps of the 2006 Winter Olympics and the marvellous Italian Riviera, SpaceLand's wonderful location will be welcoming you on Friday 30th of June to present Europe's 1st Microgravity Flight Port and intensely talk about *open-door Space Economy*: the jaw-dropping venue will be facing the totemic mount Monviso and world-renowned wineyards, medieval castles and baroque towns surrounded by a myriad green hills, fascinating mountains, ancient villages and amazing sightseeing sites.

Such a unique, multi-disciplinary networking event follows on previous successful gatherings organized by SpaceLand and endorsed by international institutions: the 4th workshop will again feature the pro-active participation of aerospace industry, high-tech innovation & science research entities, academic institutions, small and medium enterprises, space tourism operators and other key-players of the novel *Space economy*, in the wake of the successful results of previous SpaceLand workshops (e.g. see ASI website or https://avionews.it/item/1120120-21st-23rd-october-2nd-spaceland-expo-congress-in-the-island-of-sardinia.html

With the support of members, experts, friends and affiliates of the International Astronautical Federation (www.iafastro.org/membership/iaf-members-map.html), the Lunar Exploration Working Group (ILEWG) as well as international groups such as EuroMoonMars, ArtMoonMars, Space professionals, Polytechnical schools and Universities as well as other most valuable organizations in the microgravity "STEAMM" disciplines (*Science, Technology, Engineering, Arts, Math and Medicine)* will be meeting with investors, industry managers, techno-innovators and researchers, thanks also to the involvement of the local Aerospace District representatives.

**Why**

The main purpose of the workshop is to present the game-changing Microgravity Flight Port being developed at such a fantastic location, featuring unique ground, underwater and flight facilities dedicated to familiarization with, design, development, training, educational and testing systems, installations, analogs, laboratories and immersive environments dedicated to prepare people at any age and hardware for aerospace flight opportunities going to take off on board parabolic and sub-orbital flight vehicles from the local runway.
Educational, R&D and business opportunities will be discussed in the context of all those STEAMM disciplines which can benefit from low-gravity flight conditions on board SpaceLand-branded vehicles as well as Moon & Mars-bound exploration programs, addressing not only human presence in our solar system and expansion of knowledge, including opportunities for healthy longevity extension R&D and eco-sustainable progress to ameliorate life on Earth for the weak social classes. In a nutshell, the 4th IAF SpaceLand workshop and Europe's first Microgravity Flight Port thereby presented will focus on how the Space Economy, dwelling on applications, spin-in & spin-off opportunities stemming from microgravity STEAMM domains, can help enhance everyday's life for people at any age, unifying different cultures to peacefully overcome such troubled times worlwide.

Including a intriguing "Space Art" exhibit, this multi-disciplinary event will also cater for the needs of the general public top understand how to get engaged in microgravity STEAMM and what the benefits are from all of this for their everyday's life, both in Europe through the SpaceLand Microgravity Flight Port in Cuneo as well as in the SpaceLand twin location situated in the Indian Ocean, for Africa and South Asia, namely in Mauritius where a spin-off of the SpaceLand consortium is now located: Head of State's speech at the *United Nations* on www.youtube.com/watch?v=2RthuFMcdfg

**Space for All**

The SpaceLand Microgravity Flight Port will be fully democratizing people's access to microgravity, with user-friendly underwater, ground and flight facilities where to experience and test in Mars-gravity, Moon-gravity and weightless conditions. Space-engagement will be the key word of the workshop, namely "Space-engaging" the population at large, from techno-sciences to culture and arts, within the context of state-of-the-art industrial and scientific programs to holistically advance in all microgravity STEAMM sectors.

Facilitating public involvement in such civil aerospace programs, eco-friendly socio-economic and cultural returns can indeed be maximised, including commercial initiatives to provide jobs and future-oriented stimuli also for non-Space professionals and ordinary citizens, e.g. by hand-on engaging anybody irrespective of factors such as gender, age, culture, geography, religion. The workshop will emphasize the values of 3G-plus-diversity embedded in "open-door" Space-related activities, as already showcased in the past by the first trailblazing SpaceLand flight missions taken off from the the NASA Space Shuttle Landing Facility which hand-on involved female and male elderly, kids, people with 100% disabilities for cutting-edge biotech, biomed and high-tech experimental programs with international users.

During the collateral *Space Artwork exhibit, lasting until the whole week-end,* artists will be able to meet entrepreneurs, scientists, investors and media for a fruiful mutual exchange of experiences.
The event will also provide opportunities to propose new initiatives, art performances and STEAMM experiments and experimental facilities to be accommodated on ***sub-orbital launchers***, ***air-launched rockets*** and on board the upcoming new series of **SpaceLand Martian, Lunar & Zero-G flights** being organized on the ***world's largest single-aisle flight vehicle*** at the ***lowest-ever cost*** *for such missions,* to **actually democratize Microgravity and Space for All and *for Real.***

**All participants will benefit from a reduction, for the same amount of the workshop contribution paid on site, of the price-tag to participate to the next SpaceLand Flight Mission in Lunar-gravity, Mars-gravity and Zero-gravity**

**Organization**: CCI Torino & SpaceLand; info: Giulio Ferratini, SpaceLand@SpaceLand.it , website: www.SpaceLand.it

Workshop introduction by **Carlo Viberti**:

President of the SpaceLand consortium and renowned as Piedmont citizen closest to Space, he graduated with full marks cum Laude at 24 years of age at the Polytechnical Engineering University of Torino, to start an almost 40 year-long career in human spaceflight programs. In the year 2000 was proposed by American-Russian MIR Corp as *history-1st private cosmonaut-engineer,* paving the way to the upcoming commercial human spaceflight era (www.theguardian.com/science/2000/may/24/spaceexploration1). At the European Space Agency worked many years as Lead-Engineer of the Astronaut Activities Office and then served as Chairman of the European Technologies for the phase 1 of the International Space Station program on board the orbital station MIR. In 2005 became the first non-U.S. citizen to fly from the NASA Space Shuttle L.F. with the first NASA Microgravity Pathfinder Flight program for science research also on behalf of experiments coordinated by the winner of the Nobel Prize for Medicine Rita Levi-Montalcini. In 2009 was proposed by the Head of the Italian Space Agency as first sub-orbital research astronaut. Since 2002 prepares and brings laypersons with scientists and research hardware to fly in weightlessness, e.g. world's oldest (93 years of age), first disabled person (in April 2005) and the youngest-ever (his 11 yr-old son Kim Marco Viberti) test subjects flying for science research and technology innovation in Lunar-gravity, Mars-gravity and in weightlessness

**Invited speakers**

**Christian Feichtinger:** Executive Director of the International Astronautical Federation, PhD in space experimentation from Graz University of Technology (AU), in the past he was senior advisor on Space exploration at the European Space Agency and Head of ESA's permanent mission in the Russian Federation, after working as the Agency's representative for human spaceflight and exploration in Moscow for 10 years. Previously, was flight operations support manager for the Euro-Russian EUROMIR-94 and 95 missions at the Russian mission control centre, ESA liaison officer within the EUROMIR-94 and 95 management teams, technical manager of the Soviet-Austrian AUSTROMIR project and follow-on missions.

**Bernard Foing**: having worked until 2021 as senior ESA program scientist, prof. Foing is an expert of Moon and Mars-related STEAMM, engaged in overcoming 3-G barriers for involving youngsters and non-Space communities in civil Space programs, particularly through the IAF ITACCUS Committee, ILEWG EuroMoonMars and ArtMoonMars associations.

**Nandu Goswami**: teaching and leading major biomed reasearch projects at the Medical University of Graz (Austria), Doct. Goswami is a key-expert in commonalities between astronauts' health issues and elderly's pathologies related to same physiological areas: inter alia, he can best convey the relevance of life science research in Space and in 0-G for instance to address human being's longevity extension, highlighting the importance of biomed R&D involving the general public. He will be talking about "*Spaceflight meets geriatrics*"

**Celeste Petraroli:** one of the first Italian "Space Techno-Architects" for Mars-bound programs, previously was in charge of the design and development of the facilities for the international mass media at the Olympic Games of Torino 2006; she now leads the design activities for the SpaceLand Mars Habitat being developed with Politecnico Torino and local high-tech enterprises.

**Xie Gengxin**: Professor at Chongqing University (China) and Director of the Center for Space Exploration ("COSE") clustering 20 Universites for the Ministery of Education of the People's Republic of China, he is renowned as Chief Designer of first biological experiment on the dark side of the Moon for the space mission "Chang'e-4" 2019, famous for having grown for a few days the first living creature on another celestial body.

**Many more speakers registering: hurry up with your application !**

Such a unprecedented "campfire networking workshop" is open to **20 speakers** and maximum **60 participants.**

**SpaceLand consortium in brief**

The SpaceLand group, founded by Swisss and Italian investors and led by history-first private cosmonaut-engineer nominee proposed back in 2000 by the USA-Russian Mir Corp, is now based in Mauritius with spin-offs in Europe to actually democratize access to Microgravity for All. SpaceLand leads the world's non-governmental efforts in engaging people at every age from 11 to 93 years old, also with 100% physical disabilities, as it showcased since 2005 at NASA, including weightless biomedical research and technology innovation support services as well as planetary exploration programs, preparing in Lunar-gravity, Mars-gravity and weightlessness all kind of STEAMM research and educational activities; this includes support to future discovery of life elsewhere and extension of human longevity by nurturing multidisciplinary R&D projects, by developing exciting aerospace missions to prepare for exploring habitable worlds and by cooperating with partners nationally and internationally for the benefit of humankind, with a major focus on the holistic study of life and our existence in the universe - origin, evolution, future and distribution – as well as on ways to enhance quality of living on this planet for the poor and the less fortunate. All of this is unfolding through a set of SpaceLand Centers and flight facilities, starting from Levaldigi airport, as summarized during the one and only invited speech at the NASA IAF Idea Breakfast event in late 2022, here reported https://www.prnewswire.com/news-releases/0-g-launch-and-spaceland-announce-signed-partnership-for-international-zero-gravity-flight-services-in-switzerland-italy-and-mauritius-301627542.html

**www.SpaceLand.it**

**4th SpaceLand IAF workshop: 30 June 2023**

Please fill your data in

**FAMILY NAME:_____ NAME (first name): _____**

**E-mail address: _____@ _____**

**I am** *(choose one):*

- **INVESTOR / ENTREPRENEUR**
- **SCIENTIST / RESEARCHER / TECHNOLOGY INNOVATOR**
- **TEACHER**
- **MEDIA**
- **STUDENT**
- **Other:** *(please specify)* **_____**

**interested in the following** (*pick one; if more, please number your first priorities with 1, 2, etc.):*

- **Planetary exploration (robotic and crewed systems, space labs and habitats)**
- **Microgravity STEAMM (science, technology, engineering, arts, math & medicine) opportunities**
- **Satellite aerial-launchers and sat debris clean-up systems**
- **Astronaut health, fitness, nutrition and spin-off's to everyday's life on Earth**
- **Space Tourism, space-fashion and space-culture business**
- **New series of Mars-gravity, Moon-gravity, Zero-G *open* flight campaigns from Levaldigi Cuneo**
- **Entrepreneurship and Finance for the above sectors**

## PARTICIPANT's DETAILS

*Please type or hand-write in **CAPITAL LETTERS***

**Entity / company / institution** (if any): _____

**Role/function_____, address (square/street, nr. _____**

**Post code / ZIP: _____ Town_____**

**Province/County:_____ State / Nation _____**

**Landine phone nr: + _____ Mobile: + _____**

**Passport nr.: _____ Valid until (dd/mm/yy): _____**

**I need details for the accommodation package:** (YES or NO) **_____**

**Date of signature: (dd/mm/yy): ____/____ / ____** *Readible* signature: _____

***Record-breaking crew-members*** **selected among the general public, trained and brought to fly by SpaceLand team led by former ESA-zero-gravity test engineer and Space Station MIR European Technology Experiments Coordinator Doct. Carlo Viberti for *biomedicine, technology and/or bioengineering* experiments commissioned by Nobel-Prize-winner led groups, taking off from the *NASA Space Shuttle L.F.***
**(Kennedy Space Center, Cape Canaveral, Florida)**

## World's youngest kid as research test subject in zero-gravity: 11 yrs old

**11-year-old Kim Marco Viberti** flew in 2008 as test subject for neurobiological sampling experiments related to studies on neuropathologies such as the Alzheimer's syndrom, commissioned to SpaceLand by the European Brain Research Institute led by dr. Rita **Levi Montalcini (Nobel Prize winner),** Italian State Health Institute (ISS), Italian State Research Center (CNR) and University of Milan (I); results reported in scientific paper issued for the European Low Gravity Research Association's Congress in Bonn (D).

*Left : free-flying break between sampling, right: interview by **Italian State TV "TG1"** prime news report*

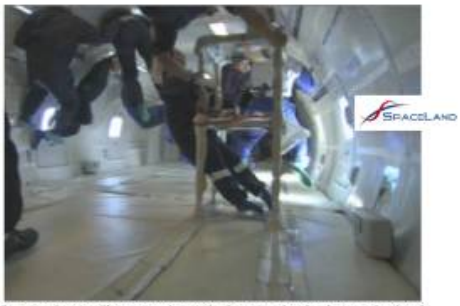
## World's oldest man in zero-gravity: 93 yrs old

**93 year old man**, flying as test subject for bioengineering experiments commissioned by the **Don Gnocchi Science Foundation's Bioengineering Center** of Milan (image from **CNN TV news report**)

*Images show footages from **CNN TV reports***

## World's 1st disabled for technology tests in zero-g

**100% disabled woman** as test operator for hand-free ICT control systems commissioned by **AIDA Modena** (**"Informatic tools for disabled and elderly"**)



*Footage showing Elma operating at the SpaceLand technology payload rack, broadcasted by the Italian State TV "RAI2" and Mediaset TG 4 news reports*

SpaceLand / Carlo Viberti have been awarded, inter alia, the following prizes:
. European "EOS" Award for Innovation Policy, by the European Commission
. Prize "*Torre di Castruccio*" - Gold Medal by the President of the Republic of Italy
. Prize "*Etica ed Impresa*" by Italy's Federmanagement and AssoQuadri associations
. Italian Aeronautics and Astronautics Association Award
. Finalist rank for Italy's ConfCommercio "*Innovation Prize*"
and several other awards

## First non-US citizen taking off from NASA Space Shuttle L.F.

SpaceLand Flight Mission Commander **Eng. Doct. Carlo Viberti** is the **1st non-U.S. citizen** authorized to take off for microgravity research flights from the NASA Kennedy Space Center
He has been formally proposed by the *Head of the Italian Space Agency* to fly as **1st Astronaut-Engineer** on the ***first sub-orbital research flight campaigns.***
The program has been presented with guest lectures in Oxford at the 1st UK Space Agency's workshop on microgravity and the 1st Space Commerce Summit in 2013 in London with NASA

*Left: footage from RAI and Swiss State TV ; right: Viberti with Space Shuttle pilot Rick Searfoss, possible crew of first sub-orbital research flight being endorsed by the ASI President*

## Underwater Training Camp for Italian Space Agency & University of Cagliari's Lunar exploration technology programs

*Footages from Italian State TV documentaries broadcasted on RAI 2 TV (search for videos on U-Tube and Google key words "SpaceLand Viberti")*

**www.SpaceLand.it**