

## SPACE RENAISSANCE AT IAC 73 IN PARIS



SRI NEWSLETTER – September 14<sup>th</sup> 2022

by Bernard Foing & Adriano V. Autino

Space Renaissance International is participating to the 73<sup>rd</sup> International Astronautical Congress 2022, in Paris, from Sunday 18 to Thursday 22 of September.

The IAC 2022 theme is **Space for @ll** to reach beyond the space community and bringing together all communities to offer great opportunities for networking and forging new contacts and potential partnerships.

SRI decided to invest in a booth at the exhibition center, together with our partners LUNEX EMM, MMAARS, ORIGIN, ITACCUS. Our place is D11B.

SRI is now a proud **member of IAF**, with which we are increasing collaboration in several committees.

### IN THE MIDST OF TRANSITION

**September 2022** – We are witnessing an **epochal transition, from traditional aerospace to the new space economy**. This evolution roots back to 1996, when Gregg Maryniak and Peter Diamandis launched the X-Prize. ScaledComposites won the competition in 2004: SpaceShipOne reached a 100 km altitude twice in one week, spending only \$30 Million. Low cost access to space was demonstrated. Elon Musk's SpaceX, a company emerged during that enthusiastic race, bootstrapped **the age of reusable rockets** in 2015. Such giant technological leap brought to a meaningful downsizing of costs to orbit.

The **global space economy is now estimated near half a trillion dollars**. Space Renaissance International (SRI), and the space advocacy community at large, can rightfully claim to be protagonists of this phenomenal space revolution. The contribution of philosophy in analyzing the status of civilization is decisive, identifying the best route to the humankind only sustainable development: in outer space. This

is the mission of Space Renaissance International, founded 14 years ago: to boost the expansion of civilization into geo-lunar space and the solar system – i.e. **Civilian Space Development**.

Will this be enabled by governments, **by public monetary investments, or by private enterprise? We believe both**. If it is true that the Artemis program would cost less, through the use of reusable launch systems, it is also unfortunately true that a fully reusable launch vehicle is not yet available (though we hope that SpaceX's Starship will fly to orbit as soon as possible!). Could reusability have been implemented earlier? We believe so (decades ago), yet this didn't happen – largely due to differing interests. History is indeed complex.

However, **collaborating is much better than looking for “culprits”**, especially when time is of essence! If what we have now is still a costly expendable rocket, better to use it: we cannot wait. Moon development, as part of a larger civilian space development strategy, shall commence before 2030. People could remark that a coherent strategy doesn't really exist, yet. Right, that's why Space Renaissance exists and restlessly works.

SRI members are **presenting papers at IAC Paris**:

Adriano V. Autino	Why the Civilian Space Development shall kick-off now Space Renaissance Academy – the Space Renaissance Ambassadors Programme The value of human patrimony: a 100% inclusive vision
Bernard Foing	LUNEX EuroMoonMars Earth Space Innovation Highlights ArtMoonMars: Art-Science Gallery in Space and on the Moon
Celia Avila-Rauch	Romanticism in Science as a form of cognitive bias and SETI Cognitive, emotional and social skills for aerospace and high-performance teams
Emmy Jewell	The Medinaut™ system: a telerobotic, tele-presence flying telesurgical physician drone-rover ... An entrepreneurial vision: curating fully-immersive experiential simulation trainings, ...
Ghanim Alotaibi	Emerging Space Countries and the Future of Lunar Exploration
Julio Rezende	Cactus on Mars: Cultivating indigenous plants on Mars: experiments on Habitat Marte space analog station Evaluating a pharmacy to a space analog station Evaluation of the overview effect experience in a space analog mission Workouts in space analog station Habitat Marte
Kaja Antlejš	Integrating dual-purposed meaningful Extended Reality (XR) experiences into a daily exercise routine in Isolated, Confined, and Extreme (ICE) environments, ...
Marie-Luise Heuser	Space Culture and Space Philosophy
Marie-Pier Boucher	Space Down down to earth: on space urbanism and space cities
Marlène Losier	Using “Safety Zone” Examples on Earth's Land and its Waters in order to Better Design “Safety Zones” on the Moon, Other Celestial Bodies and in Inter-Stellar Space Inspiring Legal Initiatives to Safeguard and Enhance Space-Related On and Off World Art and Culture Amongst Greater Sectors of Civil Society
Susan Jewell	Holotriage: a novel medical first response training for astronauts integrating artificial intelligence, ...
Werner Grandl	Lagrange Asteroid City (LAC) – Asteropolis: the O'Neill's Space Urban Model Revisited

We are also **participating to several IAF Committees**:

- Committee for the Cultural Utilization of Space (ITACCUS)
- Committee for Liaison with International Organizations and Developing Nations (CLIODN)
- Committee on Developing Countries and Emerging Communities (ACDCEC)
- Space Museums and Science Centres Committee
- Space Societies Committee (SSC)
- Commercial Spaceflight Safety Committee
- Committee on Planetary Defense and Near Earth Objects (NEO)
- Committee on Space Security
- Enterprise Risk Management Committee (ERMC)
- Entrepreneurship and Investment Committee (EIC)
- Human Spaceflight Committee

- Space Economy Committee
- Space Education and Outreach Committee (SEOC)
- Space Exploration Committee
- Space Habitats Committee
- Space Life Sciences Committee
- Space Traffic Management Committee
- Space Transportation Committee
- IAA Permanent Committee on Space Debris

**We are waiting you at booth D11b!**

**Please help us sustaining this effort, by donating some money:**



<https://spacerenaissance.space/donate-to-space-renaissance/>

**Join the SRI Crew, if you think what we do is worth:**



<https://spacerenaissance.space/membership/international-membership-registration/>