

SPACE ARCHITECTURE

Economic impacts, future developments and industrial perspectives of innovative construction techniques for the creation of habitats for the Moon and Mars

SEMINAR

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Moderator: Vittorio Netti
v.netti@poliba.it

Link Cisco Webex:
<https://bit.ly/3dU3HDn>

The expansion of the human sphere of influence in the solar system is closely linked to the development of the ability to use local resources. The Moon and Mars, main candidates for hosting the first human outposts in the heliosphere, offer a large number of raw materials useful for this purpose, but to effectively exploit the ISRU (In Situ Resources Utilization) it is necessary to develop advanced processing and processing techniques of the available materials. In this context, Space resources will be a major international topic in the next decade. It is important to foster industry, academia and agencies discussion and involvement, whilst thinking on the social and economic benefits in the near term here on Earth.

The goal of this seminar is to stimulate discussion on the topic between aerospace agencies, industry and academia, on future developments, perspectives, and impacts of enabling techniques and research for the new generation of space programs.

INSTITUTIONS

Research: PoliBa | PoliTo | PoliMi
Space Agencies: ESA | ASI | CIRA
Industry: Renca | Dinishape | Wasp | Roboze,

SPEAKERS

INSTITUTIONAL GREETINGS | Rector Francesco Cupertino | Politecnico di Bari
Rector Guido Saracco | Politecnico di Torino

RESEARCH

Antonio M. Petruzzelli, PhD | PoliBa
Prof. Giuseppe Fallacara | PoliBa
Prof. Nicola Parisi | PoliBa
Prof. Amedeo Manuello | PoliTo
Valentina Sumini, PhD | PoliMi

INDUSTRY

Alex Reggiani | Renca Inc.
Enrico Dini | Dinishape Srl
Lapo Naldoni | WASP Srl
Alessio Lorusso | Roboze Spa

SPACE AGENCIES

Luca Del Monte | ESA
Raffaele Mugnolo | ASI
Nunzia Favaloro, PhD | CIRA
Melchiorre Conti, PhD | ESA
Tommaso Ghidini, PhD | ESA