

Proposal for Forming an IAA Study Group

Title of Study:

Global status of astronautics and space-related higher-education: Goals and Strategies

Proposer(s):

(Must be member(s) of the Academy M or CM)

Sandra Häuplik-Meusburger (M)

Chris Welch (CM)

Primary IAA Commission Preference:

Commission 6 Space and Society: Culture and Education

Secondary IAA Commission Interests:

All other commissions have potential interest/involvement
Commission 1 agreed to cooperate

Members of Study Team

Chair(s):

Sandra Häuplik-Meusburger (M)

Chris Welch (CM)

Secretary:

Open position – please nominate yourself

Other Members:

(Open to members and non- members of the Academy)

We are looking for:

- Academy members with relevant knowledge/expertise.
- Members of international/regional organizations with relevant knowledge/expertise, e.g., IAF, UNOOSA, UNESCO, OECD, ESPI, ESF, UNISEC-Global, WTUN, etc.
- Representatives of space agencies, national educational ministries, and universities active in astronautics and space-related higher education.

Please nominate yourself and / or suggest possible members

Already agreed:

Gerhard Schwehm, Chair Commission 1

Short Description of Scope of Study

As the global space sector develops and the space economy increases, more countries worldwide are engaging, or wish to engage, in space activities. To achieve this, they need a suitably trained workforce and a robust development strategy. As a result, the role of higher education in enabling these aspirations is becoming increasingly important.

The study proposed will address the relationship between space activities and higher education globally to capture how these different countries are preparing their next generations for future challenges and opportunities in the space domain. Specifically, the study team will investigate the goals to be achieved, the necessary requirements as formulated by the different stakeholders, and the strategies applied.

The study will cover as many countries as possible, ensuring representation of different major geographical areas of the world and different levels of economic status and space activity. The study outputs will interest a wide range of audiences, including academics, space industry professionals, researchers, students, and others, in learning more about this aspect of the space domain.

Overall Goal:

(Expected scientific or practical benefit of the study group's efforts)

For each country:

- Assess its space activities, historical and current, and its plans for the future.
- The structure and scope of its higher education system.
- The role of its government and industry in supporting higher education in astronautics and related disciplines.
- Its astronautics and space-related higher education activities (different types of programmes available, the universities that offer them, research areas being addressed, etc.).
- The international collaboration efforts of the country in space activities and higher education.

Summarise trends in the development of global astronautics and space-related education. Identify gaps and their reasons.

Make recommendations for future actions in this domain.

Intermediate Goals:

- Identify key international, regional and national actors in space-related higher education.

Methodology:

(Email works, workshops, stand alone conferences, interim publications, etc.)

- Email contact
- Zoom/in-person (where possible) meetings
- Workshop/conference TBD (The first meeting / workshop shall take place during the IAC 24 in Milano)
- Mid-term report

Time Line:

(Cannot exceed three years)

Following the formal approval by IAA
September 2024 – August 2027

Final Product (Report, Publication, etc.):

- Final Report
- Database of Global Space Higher Education Programmes

Target Community:

- Academics, space industry professionals, researchers, students, etc.

Support Needed:

Assistance in networking to relevant organisations and individuals. Help from the committee members is appreciated.

An in-person workshop is foreseen during the IAC-24 in Milano. Organizational help will be needed, as well as facilities, hospitality, etc.

Potential Sponsors:

TBD (UN, UNOOSA, regional organizations such as APRSAF, ESA, Space Foundation)

To be returned to the IAA Office in Paris by email: office@jaamail.org

Date:

Name:

(No Signature required if document authenticated).