

**SPACE RENAISSANCE ACADEMY**  
**Committee: Target Young Generation**

**Co-Chairs: Ghanim Alotaibi, Bernard Foing**

**Biography:** Ghanim Alotaibi is a PhD candidate at the University of Strathclyde. His research project is thermal management for an advanced Solar Power Satellite (SPS) concept with the aim of advancing the Technology Readiness Level (TRL). As a mechanical engineer graduated from Kuwait University, Ghanim started his career as a petroleum engineer at Kuwait Oil Company. After obtaining a degree in astronomy and completed his master's in solar energy (photovoltaics) from Freiburg University, he proposed the first satellite for Kuwait University. The satellite project was funded and it was successfully launched in January 2023.

Ghanim was an active member in many space non-profit organizations. In the past, Ghanim was the Middle East Regional Coordinator of the Space Generation Advisory Council (SGAC). Currently, he is the project manager for the Moon Village – Participation of Emerging Space Countries (MV-PESC). The aim of the project is to bring developing countries to perform moon projects. In addition, Ghanim is a board member at the Space Renaissance International (SRI) and co-chairing the Towards the Young Generation Committee. Ghanim's exposure to space research and the wider space community motivated him to initiate and lead countless activities to bring concepts of advancing human civilization into space to developing countries. For this reason, he founded Advance Space Civilization Initiative (ASCI) where he offers courses about the topic for the general audience focusing on developing countries.

**Introduction:**

The Space Renaissance Academy - Towards the Young Generation Committee (SRI – TYG) was conceived after the SRI 3<sup>rd</sup> World Congress, as working with and for the Young Generations was identified as one of the key goals, in the Congress' Final Resolution<sup>[1]</sup>. The Committee was established in 2023, with the aim to attract the young generations to the cause of the SRI and exposing them to the vision and values. The committee is Co-Chaired by Bernard Foing and Ghanim Alotaibi. This document explains the work methodology for 2024 to achieve the aim of the committee.

**Work Methodology 2024:**

The idea of organizing an event for the youth was proposed just after the establishment of the committee. Soon after, it was decided that the Event "Expanding Humanity to Outer Space – International Cooperation (EHTOS), will be fully online and for international students. The event is about a competition between teams from around the world to conceptually design an O'Neill cylinder type habitat hosting hundreds of inhabitants. More details about the scope and the objectives of the event can be found in the following link:

[Space Renaissance International - Expanding Humanity into Space - International Cooperation Youth Event - Space Renaissance Events and Conferences](https://2021.spacerenaissance.space/wp-content/uploads/2021/07/Final-Resolution-Final-approved.pdf)

The SRI members' experience is a valuable resource. TYG committee organized a series of recorded lectures presented by speakers from the SRI community. The aim of this lectures series was to create educational materials for the young generation participating in the event.

Participating teams will gain more mentoring sessions during the event by SRI members, and they will be given 3 weeks in September 2024 to complete their design. The winning team will get a scholarship to attend IAC Sydney 2025.

All Participating teams at EHTOS will be welcome to draft an abstract for IAC 2025 Sydney. TYG committee will supervise the paper drafting. Lessons will be learned from EHTOS by November/December 2024.

**Current Efforts & State of the Art** (here shall be attached references to existing literature, policies, agreements, and formal recommendation made by the specialists)

<sup>[1]</sup> <https://2021.spacerenaissance.space/wp-content/uploads/2021/07/Final-Resolution-Final-approved.pdf>

<a href="#">Coming soon</a>
<b>Development Plan(s), Agenda, Current Works, Projects, Meetings</b> <a href="#">Coming soon</a>
<b>Partnerships</b> <a href="#">Coming soon</a>
<b>Resources</b> (A list of organizations and offices working on this topic). <a href="#">Coming soon</a>