



# Space Colonization

*American Institute of Aeronautics and Astronautics*  
**Technical Committee**

The Space Colonization Technical Committee is a TC under the auspices of the AIAA with specific interests that will facilitate space colonization as the ultimate goal. Our Charter is provided below:

## **AIAA SPACE COLONIZATION TC CHARTER**

Promote the identification and development of advanced concepts, science, and technology that will support, enhance and enable permanent human presence in space. The SCTC will foster:

- (1) Development of human space colonization, including: (a) space tourism; (b) space base operations in orbit, in transit, and on planetary surfaces; (c) robotic/automated and human space exploration and data needs; (d) human settlements in space; and (e) Mars and other planetary terraforming activities; and
- (2) Development of: (a) informed positions; (b) forums for communication, networking, and policy development; (c) creation and distribution of educational materials; and (d) development of technical interchange and awareness on emerging issues to our members, the AIAA, industry, academia, the general public, the federal and foreign governments; and
- (3) Leadership in developing: (a) mission justifications; (b) assessments of environmental, legal and science ethics; (c) identification of technical issues; (d) identification of social issues; (e) implementation criteria; and (f) space colonization methods and a credible timetable.

## **SC TC Subcommittees**

Executive Subcommittee (Officers & Subcommittee Chairs)  
Conferences and Workshops  
Publications and Website  
Education and Outreach  
External Affairs (TC Liaison Congressional Liaison and CVD)  
Space Policy  
Membership  
Awards  
Nominations and Elections  
TC Meetings  
Students

The Executive Subcommittee will be comprised of TC officers and subcommittee chairs. This subcommittee will provide guidance to the activities of the TC. It will provide input on strategic planning and issue development for AIAA position papers and planning for debates and technical presentations at TC meetings. This Subcommittee will be chaired by the TC Vice Chair.

The Conference and Workshops Subcommittee is responsible for organizing, leading, selecting and chairing technical sessions for various AIAA Conferences and Workshops. Key participation will be with the AIAA Space Conference, the STAIF Conference, and the Aerospace Sciences Meeting. Other meetings to consider involvement include: Space Resources Roundtable Meeting in CO, and CVD in Washington, DC.

The Publications and Web site Subcommittee prepares and publishes articles, assists with AIAA and other periodicals, prepares the annual summary on Space Colonization for publication in Aerospace America, and conducts public relations activities to promote the advancement of space colonization, as needed. This subcommittee is also responsible for soliciting papers for publication in AIAA and other journals, as well as providing technical reviewers for such journals upon request. This subcommittee will also coordinate the development of Position Papers for publishing by the AIAA. The AIAA SCTC's website will be developed, maintained and controlled by the subcommittee. Inputs from other SCTC subcommittees will be reviewed for content prior to publication on the website.

The Education and Outreach Subcommittee is responsible for developing educational and outreach strategies, tool and materials for the TC membership, AIAA, industry, academia, federal government and the general public. It also participates in the AIAA Student Design Competition by providing contest topics and project judges. The subcommittee promotes and conducts education activities and develops specific items (short courses, conference seminars, videos, slides, tools and materials, etc.) to increase AIAA member and public awareness, education, policy maker interest, and professional knowledge of space colonization.

The External Affairs Subcommittee is responsible for organizing the SCTC's involvement in Congressional Visit Day (CVD) and any additional congressional liaison. This subcommittee provides assistance in updating and publishing educational materials to be used in CVD each year. The subcommittee will also coordinate with other AIAA TC's to break new ground in TC cooperation keeping in mind future plans of jointly held sessions and workshops at AIAA conferences. This subcommittee will also be active in inviting local AIAA section representatives to SCTC meetings.

The Membership subcommittee seeks members who are enthusiastic about the space colonization and related key subjects as given in the charter. Members who attend the minimum meetings (2/year) and who actively contribute will be kept on the TC for their 3-year appointment. A warning notice will be sent to those who do not attend the required yearly minimum TC meetings and they may be dropped from the SCTC with the discretion of the SCTC Chair. The membership subcommittee will work closely with the chairman to keep balanced membership across organizations and charter. TC Advisors will be welcomed to participate. Student membership and participation is also a function of this subcommittee.

The Awards Subcommittee is responsible for candidate nomination and selection of the best paper award at conferences or workshops sponsored by the SCTC. The SCTC should consider a college scholarship for outstanding students studying in the fields of interest to the TC. Money can be raised from funds provided to the TC by AIAA and through short courses and workshops. At some future time, we need to consider a professional award (properly named after a key space colonization person) to someone who has provided significant contributions in the field.

The Nomination and Elections subcommittee organizes the election process for the chair, vice-chair and secretary of the committee. Election is held once every two years or when required to fill officer vacancies. This subcommittee is chaired by the current TC chairman.

#### TC Meetings Subcommittee

There will be two to four regularly scheduled meetings of the SCTC, as appropriate. The TC Vice Chair is to head this subcommittee. Some TC meetings should be in conjunction with AIAA conferences and workshops such that travel costs of the members can be minimized. A member of the TC shall volunteer or be appointed to host each TC Meeting. Telecons should be considered as appropriate for TC and Subcommittee meetings. The host shall plan the function, provide travel option data for members, provide relevant web sites for local information and include at least one social dinner event and one facility tour of interest for each meeting. The host shall work closely with the TC VC and Chair.

The TC will develop various expert advisory counselors or advisors who can help support the TC in the various areas of work.