

## News and Announcement

[SATC]: **Minutes of the 27 July SATC Telecon** is now available for downloads.

[SATC]: **Issued statement** for AIAA's Congressional Visit Day.

[IAC]: **Preliminary Program** for the 63rd IAC is now available.

[IAC]: **October 1-5:** the 63rd IAC at **Mostra d'Oltremare**, Naples, Italy.

Space Architecture related sessions are **D3.2, D3.4, D4.1, E5.2, E5.3** and **E5.4**.

More details can be found on the [spacearchitect.org website](http://spacearchitect.org).

### other events of interest:

[The 1st SPACE Retreat on Tenerife, Canary Islands.](#)

[Oklahoma State space architecture program.](#)

[2112AI \[Architectural Intelligence\], 100YC Spaceship/100YC: Space - Earth - Continuum \(round table\).](#)

[Shuttle Endeavour's final flight over California — NASA photo streams on Flickr.](#)

### mailing list highlights:

[Discussions on the SATC Public Policy action.](#)

[Game-changing or naive? - The Dutch Mars One Human Mission.](#)

[Conceptual Vessel by Icarus Interstellar](#)

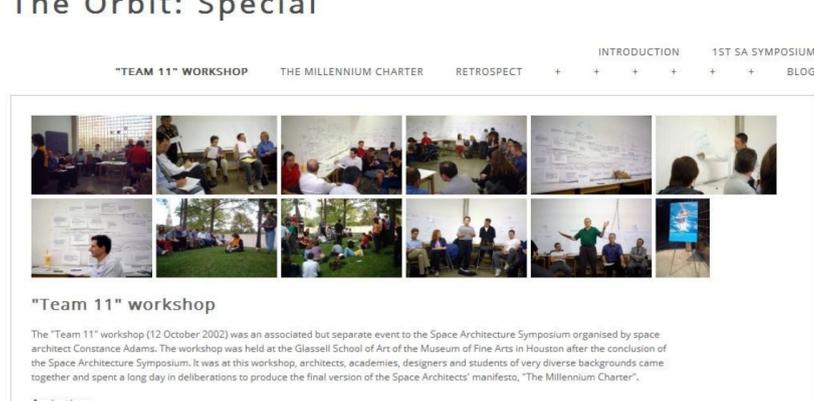
### The Orbit: Special Edition:

To mark the 10th year anniversary of the **1st Space Architecture Symposium**, the **"Team 11" workshop** and the establishment of the Space Architect's manifesto, **"The Millennium Charter"**, a special edition of **the Orbit** has been created to commemorate these significant events for the space architecture community.

The mini website includes a brief introduction to the events, as well as a selection of reviews and reflections by those who were there first-hand. So please check out this special edition of **the Orbit**, to reminisce, or to get familiar with, this particular piece of the space architecture history!

[- Link to The Orbit: Special Edition here -](#)

## The Orbit: Special



### "Team 11" workshop

The "Team 11" workshop (12 October 2002) was an associated but separate event to the Space Architecture Symposium organised by space architect Constance Adams. The workshop was held at the Glassell School of Art of the Museum of Fine Arts in Houston after the conclusion of the Space Architecture Symposium. It was at this workshop, architects, academics, designers and students of very diverse backgrounds came together and spent a long day in deliberations to produce the final version of the Space Architects' manifesto, "The Millennium Charter".

#### Aspirations

"The central goal of that "Team 11 Charter Summit" was to engage the strongest history of our profession in the previous century in forging a milestone of the same standard for the century that was to come. To do that, we hoped to combine a clear sense of direction in a millennial statement of significance parallel to the CIAM Congresses of the 1920s-50s—with a completely democratic process for input and a sense of

### Event Summary: AIAA Space 2012:

The AIAA Space 2012 Conference convened in Pasadena, California, USA, 11-13 September 2012. Shahzad Khaligh, Francois Levy and Jackelyne Silva took the lead in organizing the Space Architecture sessions:

Summary from Jackelyne Silva:

"The Space 2012 went well. SATC members had about 10 papers presented in different sessions and panels. They included Analysis of Exploration Architectures, Modular Design and Interfaces, Integration of Human Systems with Systems Engineering and Habitation and Infrastructure."

"The plenary sessions had speakers from the academia, industry, and government focusing on the integration of commercial, civil, and military efforts to maximize capabilities in national security, science, commerce, and space exploration. I liked that this year's conference was collocated with the Complex Aerospace Systems Exchange as we need to start attacking our current designs from a systems perspective and targeting missions/programs issues such as cost overruns, delays, assembly and test failures, etc."

"I particularly enjoyed the William H Pickering Lecture on GRAIL, which featured Maria Zuber, author and principal investigator of this mission."

"During the conference, AIAA also had focus group meetings where some attendees were invited to attend to present their ideas on the future of the profession; I got to attend and of course mentioned the SATC role within AIAA."



Pasadena Convention Centre photo © Aecom, AIAA Space 2012 photos by Jackelyne Silva

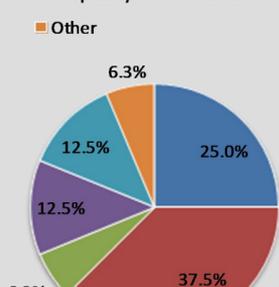
## Poll of the Month

### September 2012 Poll Results

The September's poll results indicated a majority for those who believes that multi-national collaborations, similar to "the ISS model", would be the most likely type of organisation to establish the first permanently inhabited outpost on the Moon.

If you would like to discuss or comment on this topic, you can start an email discussion thread [here](#).

- National space agencies
- Multi-national collaborations
- International bodies/NGOs
- Industrial enterprises
- Hospitality & services sectors
- Other



poll counts = 16

### October 2012 Question:

**At present, Space Architecture as a profession does not have an easy career path. Working in the discipline can seem to be under rewarded when compared to the efforts and determination required—and there are scarily few promises to success. So what keeps you carrying on working in the field?**

- "A desire to see the dream of human living in space to become realised in a more extensive scale."
- "Hoping to inspire the future generations— to let the space dream live on."
- "The rewards and glory to be among those who first "made it" is so high that it is worth all the efforts."
- "No grand goals or aspirations—simply enjoy working on something that I like and have got to know."

- Other

[Please answer the poll question here.](#)

You can also start an email discussion thread on this topic [here](#).



Keep Calm and Carry On poster 1939

## Theme of the Month



### Standards

NASA Graphic Standards Manual 1976, by design firm Danne & Blackburn. © scanned by [tim-george](#)

7 articles can be found within the [spacearchitect.org publication archive](#) by searching under the keywords **"standard\*\*"**.

Ahlstrom, Vicki; Longo, Kelly (2003 May). [Human Factors Design Standard \(HFDS\) For Acquisition of Commercial Off-The-Shelf Subsystems, Non-Developmental Items, and Developmental Systems \(DOT/FAA/CT-03/05 HF-STD-001\)](#).

Dudley-Rowley, Marilyn; Bishop, Sheryl L. (2002 October). [Extended Mission Systems Integration Standards for the Human-Environment and Human-Human Interfaces \(AIAA 2002-6110\)](#).

European Cooperation for Space Standardization (2002 Feb 15). [Space Engineering: Testing \(ECSS-E-10-03A\)](#).

NASA (1995 July). [Man-Systems Integration Standards \(NASA-STD-3000, Revision B\)](#).

NASA (2007 March 5). [NASA Space Flight Human System Standard, Volume 1: Crew Health \(NASA-STD-3001, Vol. 1\)](#).

NASA (2011 January 10). [NASA Space Flight Human System Standard, Volume 2: Human Factors, Habitability, and Environmental Health \(NASA-STD-3001, Vol. 2\)](#).

NASA, Manned Spacecraft Center (1966 November 7). [Preliminary Technical Data for Earth Orbiting Space Station, Volume II: Standards and Criteria \(NASA TM-X-59700\)](#).