

News and Announcement

- [SATC]:** Spacearchitect.org Members Directory [updated](#).
- [SATC]:** [Minutes](#) for the Feb 27 SATC tele-conference is now available.
- [AIAA SPACE]:** **31 Aug—2 Sep:** [SPACE 2015](#) at Pasadena Convention Center, Pasadena, California, USA.
- [ICES]:** **12—16 Jul:** the [45th ICES](#) at [Hilton Bellevue](#), Bellevue, Washington, USA.
- [IAC]:** **12—16 Oct:** the [66th IAC](#) at Jerusalem, Israel.

**Mailing list highlights:**

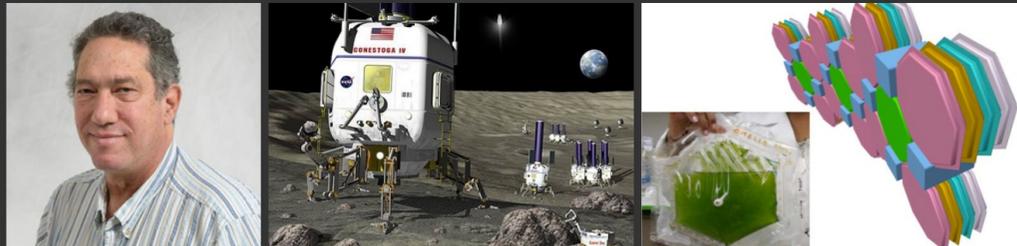
- [Scientific American article on NASA latest ISS mission - leading to discussion about the unlaunched CAM.](#)
- [Discussion on the apparent downfall of architecture as a profession, and what it means for space architects.](#)
- [Gene Cernan: NASA has "no goals, no mission, no timetable" - is that the key issue?](#)

**Other items of interests:**

- [NASA 3D Printed Habitat Challenge](#)

If you would like to discuss or comment on any of the news items You can start a discussion thread [here](#).

The Orbit Interview - Marc M. Cohen



L-R: Marc M. Cohen, "Hobot" - lunar mobile habitat concept, "Water Walls" Integrated Module and experimental algae growth FO bag. Photo credit: [Astrostructure](#)

Dr. Marc M. Cohen is a licensed architect who has devoted his career to developing the new field of Space Architecture. Marc worked at NASA Ames Research Center for 26 years, then at Northrop Grumman Aerospace Systems for 4.5 years. He is now developing his own private practice of Space Architecture (Astrostructure). The goal is to provide this expertise to the new emerging entrepreneurial space companies, while continuing to lend support to NASA and the mainstream aerospace industry. A more detailed bio could be found [here](#).

The interview was conducted by SATC vice chair David Wong.

- The Orbit:** [When did you start to be interested in space and architecture?](#)
- The Orbit:** [Who would you consider as your key influence in your pursuit of space architecture?](#)
- The Orbit:** [The first International Space Architecture Symposium \(ISAS\) was a key milestone for the development of space architecture as a discipline, and is still considered a very high benchmark with regards to the scale and lasting impact of the event. As one of the main organisers for the Symposium, what are the most memorable things you can recall from the now decade-old event?](#)
- The Orbit:** [In recent years, there seems to be an increasingly polarised view of how space explorations \(with human spaceflights in particular\) could benefit the general public. What is your view on this topic?](#)
- The Orbit:** [Do you think human spaceflights \(and more specifically, development in space architecture\) could add values to the ordinary life of humankind on Earth?](#)
- The Orbit:** [As a founder of a professional practice that is dedicated to space architecture research and development \(Astrostructure\), What is your view regarding the increasingly commercial driven setting for human spaceflight development?](#)
- The Orbit:** [What is your realistic vision for space architecture in 20-50 years?](#)

[The full transcript of the interview can be found here.](#)

Poll of the Orbit

2015/1st Poll Results

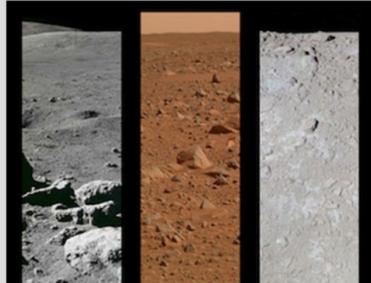
**Poll: In an hypothetical scenario, where would you be most interested to build on in the Solar System, and why?**

The poll result features a wide array of different destinations around the Solar System and includes many interesting ideas such as city-sized asteroid spaceship or floating cities above the cloud of Venus. But it is the Moon, Mars & its satellite Phobos, and asteroids that represents the majority of opinions, and with no particular one destination being significantly more popular than the other.

While the poll was intended to be more about the physical characteristics of the "sites" and less about the strategic and political implications of "destinations", the received comments tend to focus on the latter. As such, the result seems to resonate with the ongoing debate of "Moon v. Mars v. Asteroids" as the focus of future human spaceflight destinations that is taking place in the wider human spaceflight community.

**A full transcript of received comments could be found [here](#).**

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



Surfaces of Moon, Mars and Asteroid: original composition photo by Mike Malaska

2015/2nd Question:

Space Architects brings many added values to human spaceflight projects. From the pragmatic level, a well designed space architecture could reduce the build and maintenance costs, improve the comfort of the users and increase workflow efficiency. Beyond that, space architects tend to engage design from a holistic perspective, strives to make aspirations and visions an essential part of the design. However, very few from beyond its own community have a good understanding of what Space Architecture is about, and as such the potential added values are mostly disregarded or ignored.

**Do you think Space Architecture as a discipline should spend more effort in outreach activities, advocating and promoting the added values Space Architects could bring towards human spaceflight projects, and how they could benefit life on Earth?**

**Yes:** I believe Space Architects should play a crucial role on informing the general public about Space Architecture and its values, and that such efforts are worthwhile and relevant for promoting the development of Space Architecture.

**No:** I believe the discipline should focus on its core objective of being expert in habitable space design in extra-terrestrial environments. The outreach aspects should be handled by the wider space communities and PR specialists.

**Not Sure / Other**

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

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



Astronaut Chris Hatfield strums his guitar in the ISS's Cupola. Credit: NASA

Theme of the Orbit: Asteroid

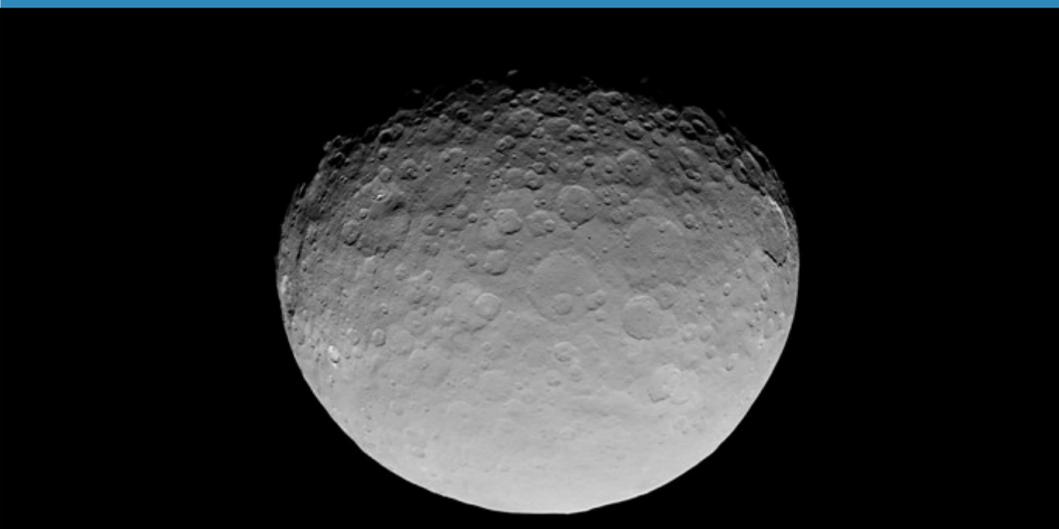


Image of Ceres taken by NASA Dawn spacecraft on May 4, 2015. Credit: [NASA/JPL-Caltech/UCLA/MPS/DLR/IDA](#)

4 articles can be found within the [spacearchitect.org publication archive](#) by searching under the keyword: "asteroid\*".

Chang, Huai-Chien; Wang, Chun-Chieh (2013 September). [Near Earth Asteroid \(NEA\) as an Alternative Manned Interplanetary Spaceship](#) (AIAA 2013-5380).

Cohen, Marc M.; James, Warren W.; Zacny, Kris; Chu, Philip; Craft, Jack (2014 January). [Robotic Asteroid Prospector](#) (AIAA 2014-0500).

Levrino, Luca; Censi, Margherita; Ciani, Alessandro; Cingoli, Alessandro; Gastaldi, Chiara; Maggiori, Paolo; Reppening, Ricardo; Viscio, Maria (2014 October). [NEA Robotic Friend: An Innovative and Versatile Vehicle to Support Human Mobility Around Asteroids](#) (IAC-14-E5.3.5).

Zacny, Kris; Chu, Phil; Craft, Jack; Cohen, Marc M.; James, Warren W.; Hilscher, Brent (2013 September). [Asteroid Mining](#) (AIAA 2013-5304).