

- [SA Poll of the Month: answer this month's question here](#) -

News and Announcement

[SATC]: **Agenda** for the next SATC Telecon.

[IAC]: **February 21:** Abstract submission deadline for the 64th IAC at Beijing, China.

[IAC]: **Call For Papers:** [preliminary programme & information](#) are now available for download.

[ICES]: **March 04:** Authors of accepted abstracts to submit draft manuscripts.

Other events of interests:

Radio broadcasts from *Spaceuriosity*: on Antarctica, Space Architecture, and more.

mailing list highlights:

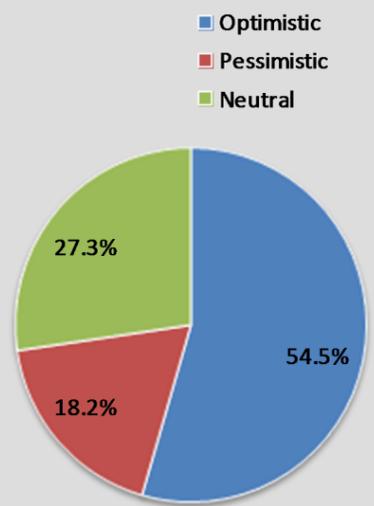
Ideas for a SATC student competition.

Poll of the Month

January 2013 Poll Results

The poll results suggested that as a community, we are generally optimistic towards the outlook for Space Architecture in the year ahead.

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



poll counts =22

February 2013 Question:

3D printing is the buzz word of the day: Many believe it would revolutionise conventional design, manufacture and construction process. In the context of space architecture, experimental researches such as [3D printing under microgravity conditions](#), [printing with lunar regolith](#), and [increasing the print size up to building scale](#) are all being actively pursued. The success of which would enable more practical architectural applications. Critics however, point out that these expectations are often overhyped, and that many of the related field of technologies such as material science are still many years away from being sufficiently advanced to deliver the high expectations promised by 3D printing.



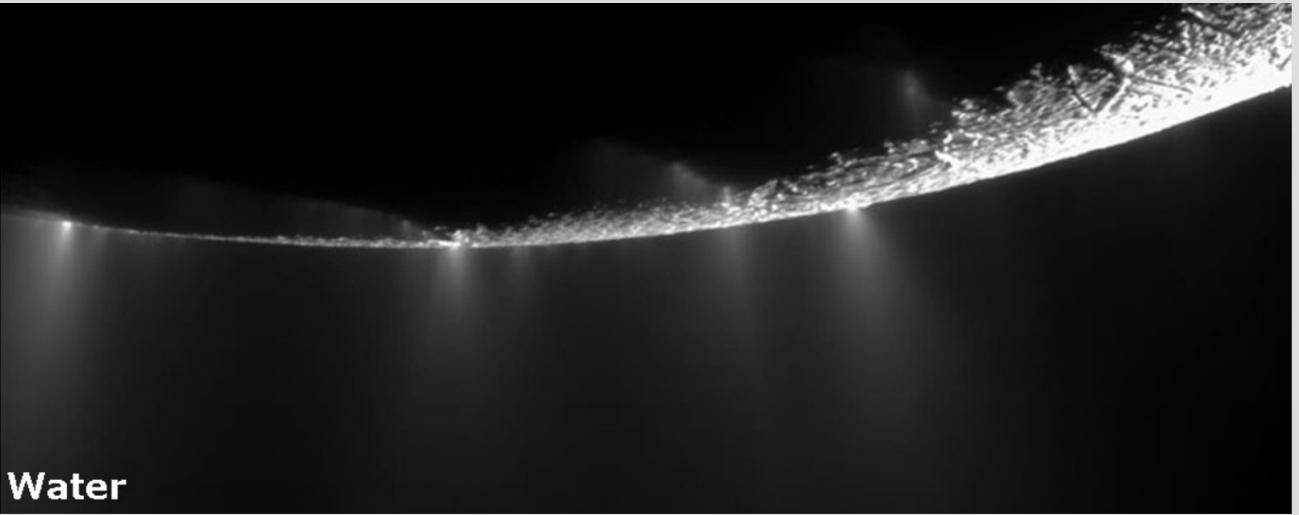
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What is your view on 3D printing, in the context of space architecture?

- It is the future. I am working on it now.
- It is promising, but it will be decades away before it has any significant impact to the space construction process.
- Its significance is overstated and that it is likely to be limited to improving efficiencies to the design process.
- It is all hyperboles that will fizzle out in a few years time.

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

Theme of the Month



Water

Water ice jets of Saturn's moon Enceladus captured during Cassini flyby. Source: NASA/JPL/Space Science Institute

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

Adams, Constance M.; Andersson, Ingvar; Feighery, John (2004 July). [Water for Two Worlds: Designing Terrestrial Applications for Exploration-Class Sanitation Systems](#) (SAE 2004-01-2269).

Cohen, Marc M.; Flynn, Michael T.; Matossian, Renée L. (2012 May). [Water Walls Architecture: Massively Redundant and Highly Reliable Life Support for Long Duration Exploration Missions](#) (GLEX-2012.10.1.9x12503).

Flynn, Michael T.; Delzeit, Lance; Gormly, Sherwin; Hammoudeh, Mona; Shaw, Hali; Polonsky, Alex; Howard, Kevin; Howe, A. Scott; Soler, Monica; Chambliss, Joe (2011 July). [Habitat Water Wall for Water, Solids, and Atmosphere Recycle and Reuse](#) (AIAA 2011-5018).

Gormly, Sherwin; Flynn, Michael; Howe, A. Scott (2012). [Space Cargo Transport Bags through Membrane Water Treatment Elements to Space Architecture Building Elements: A Total Product Sustainability and Life Cycle Design Optimization Experiment](#). In, *Journal of Green Building* (vol. 7, no. 1, p. 71-84). Glen Allen, Virginia, USA: College Publishing.