

Solvency, Sustainability and Security Through Science

21st Century Space Policy

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What should be the rationale and goals for the civil space program?

Education :

How does the universe evolve such that it produced the planet earth.
How does the planet earth evolve such that it produced biological life.
How does biological life evolve such that it produced living cells.
How do living cells evolve such that they produced living creatures.
How do living creatures evolve such that they produce human beings.
How do human beings evolve such that they produced civilization.
How does civilization evolve such that it produced the modern world.
How does the modern world evolve such that it produces science.
How does science evolve such that it produces technology.
How does technology evolve such that it produces knowledge.
How does knowledge evolve such that it produces solutions.
How do solutions evolve such that they produce goals.

Rationale :

The rationale for the United States civilian space program is the simple acknowledgement that evolution has brought us to a certain point in time, where now only science and technology can allow us to progress. Since the benefits of space science and technology to modern society are clear and irrefutable, we proceed.

We have no other rational choice.

Goals :

The goal of the United States Space Program should be the advocacy of science and technology education, in order to create the enlightened and informed populace necessary to provide for the security of our world.

In order to promote science and technology as the fundamental basis of our civilization, and to encourage other nations to follow our lead, America must continually push forward the boundaries of the unknown, and secure that which lies within our current boundaries. Right now the security of Earth is paramount.

How can the civil space program address key national issues?

Education :

How can America evolve such that we can achieve our goals?

Our space program formed the core of the post Sputnik educational experience in America during the 60s, and the results were spectacular. With America's impending solvency crisis, ambitious and robust goals, tempered by the realities of the human condition, will once again restore our confidence in our abilities, and create an electorate, a workforce, a citizenry and a populace - well prepared for our future on Planet Earth.

NOAA and NASA represent our most visible flagship national scientific and technological institutions, thus it falls upon these organizations to carry the burden of the advocacy of science education in America. Once science returns to the center of our national security and sustainability goals, results are inevitable.

How can our goals evolve such that we can take action and get results?

A secure and sustainable Earth is a necessary prerequisite for any long term expansionist space operations. Solar and wind power and hydrogen energy, and the understanding of basic energy conversion systems will be central themes of the current fiscal solvency issues America is experiencing. Prototype closed ecological life support systems will form the basis of any modern future energy efficient homes, farms and buildings. Low earth orbit cryogenic reusable rockets and solar powered low earth orbit space stations will provide an ideal and unique testing ground for all aspects of scientific demonstration and technological development, as well as for building an appreciation of the wonders, beauty and fragility of life on the surface of Earth, embedded in a much larger and mysterious cosmos which we will continue to explore with our instruments, and eventually harvest for the vast energy and resources required for continued security and sustainability.

This 600 word comment was submitted to the National Academies Space Board Questionnaire at the URL :

http://www7.nationalacademies.org/ssb/rationale_goals_civil_space.html

<http://www8.nationalacademies.org/survey/deps/ssbcivilspace.htm>