



ISSF

INTERNATIONAL SPACE
SAFETY FOUNDATION

International Space Safety Foundation (ISSF) – An Update

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Today's Commercial Space

- ◆ As we have entered into the 21st century, commercial space is burgeoning as a new industry
 - SpaceShip One winning the X-Prize
 - SpaceX launching Falcon 1 and making progress on Falcon 9
 - SpaceX and Rocketplane/ Kistler winning NASA's Commercial Orbital Transportation Services (COTS) contracts
 - Bigelow's launching of Genesis 1 and plans for the future
 - Blue Origin's test flights
 - Armadillo Aerospace nearly winning the X-Prize Cup with Pixel
 - Virgin Galactic's plans for space tourism
- ◆ The era of commercial human spaceflight has arrived!
- ◆ But, are the infrastructure and standards in place to ensure public and passenger safety?



ISSF Vision and Mission

The International Space Safety Foundation is a non-profit organization dedicated to furthering the policies of international cooperation and scientific progress in the field of space safety.

VISION:

Significantly improve space safety for the world.

MISSION:

Enhance access to space for future generations through:

- Undertaking independent **research, education, standards development and certification activities** that address all elements of space safety. The scope of activities for the ISSF includes the design, verification and validation and operation of all types of space systems, their operation during atmospheric ascent and descent, as well as in outer space and the licensing and operation of spaceports.
- Promotion of innovative **international cooperation** policies.



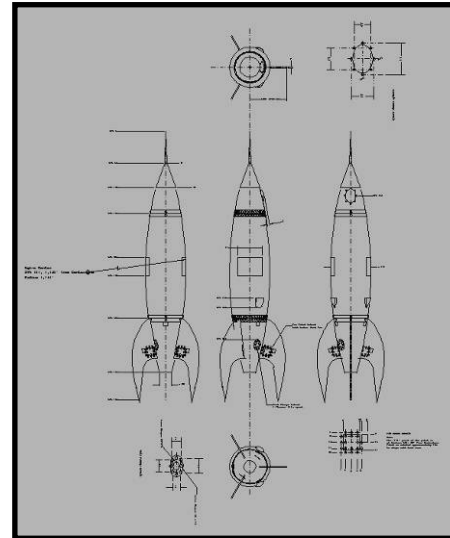
ISSF Core Values

- ◆ **Excellence** – The Foundation seeks to become the primary organization worldwide to support focused space safety research as well as the best education and training in the field.
- ◆ **International Cooperation** – The Foundation promotes international cooperation in the field of space safety research and education.
- ◆ **Independence** – The Foundation will maintain an absolute independent stance by never subscribing to those policies (of donors and non-donors) contrary to the prime mission of the Foundation and its beliefs.
- ◆ **Integrity** – Integrity is the primary asset of the Foundation, on which to build a reputation as the world leading organization in space safety research and education.



ISSF Core Values (Con't)

- ◆ **Communication** – The Foundation strives for the free and unobstructed flow of information within the space and related aerospace industries and the promotion of public awareness.
- ◆ **Education** - The Foundation believes that space safety education and training are formidable tools for accident prevention and therefore strives to expand educational curriculum and continuous professional development.
- ◆ **Proactive Programs** – The Foundation will constantly seek to influence all segments of space programs management, decision and policy makers, and elements of engineering and operations to improve space safety standards and certification processes, design and verification methods, and to push the use of improved technologies and inherently safe systems solutions.
- ◆ **Accountability** – The Foundation is fully accountable to its stakeholders and donors for accurate and appropriate use of resources to achieve the goals of the Foundation.



ISSF Goals & Objectives

The International Space Safety Foundation goals and objectives are summarized as follows:

- 1) Advance the science and application of Space Safety.
- 2) Improve the communication, dissemination of knowledge and cooperation between interested groups and individuals in this field and related fields.
- 3) Improve understanding and awareness of the Space Safety discipline.
- 4) Promote and improve the education of Space Safety professionals and the development of standards.
- 5) Advocate the establishment of safety laws, rules, and regulatory bodies at national and international levels for the civil use of space.



Foundation Programs

Fund Raising:

- ◆ Exceptional Donors – individuals, institutions or corporations which make substantial grants to build our endowment base
- ◆ Members – corporations or institutions which make annual donations:
 - Benefactor: \$25,000 or more
 - Patron: \$ 15,000 - \$24,999
 - Contributor: \$10,000 – \$14,999

Management and Development

- ◆ **Active liaison with space agencies**, corporations, professional societies, & individuals
- ◆ Develop effective communication with web site, publications, newsletters, press releases

Program Activities & Funding Allocation

- ◆ Research & Development Programs
- ◆ Standardization & Independent Safety Certification Programs
- ◆ Education & Training Programs
- ◆ Support to IAASS Programs
- ◆ Conferences & Workshop Programs
- ◆ Motivational Programs
- ◆ Contracts & Grants



ISSF Cooperation with IAASS

The ISSF was created to work on a cooperative basis with the International Association for the Advancement of Space Safety (IAASS) to further the cause of space safety in the U.S. and globally. Both organizations work on common goals and objectives to conduct research, promote training, education and relevant literature in the field and to support conferences, workshops and awards in the field of space safety.



What is the Current Status of ISSF?

- ◆ The International Space Safety Foundation has been formed as a California Corporation.
- ◆ Offices are co-located with ARES Corporation in Burlingame, (San Francisco) California
- ◆ Directors:
 - Tommaso Sgobba
 - Joe Pelton
 - Steve Newman
 - Richard Stuart
 - Tim Heiman
- ◆ Private Foundation charitable status-pending
- ◆ Charter, By-laws, Strategic Plan & Fund-Raising Strategy are all established
- ◆ Two Donors (1 Benefactor & 1 Contributor)
- ◆ Tri-Fold Brochure Developed
- ◆ Web-site est. www.issfoundation.org



Conclusions

- ◆ We are at a cross-roads in human spaceflight
- ◆ We have numerous safety lessons-learned from both government human spaceflight and other high-hazard industries
- ◆ We, as safety professionals, must find a way to effectively influence the Commercial Space industry to ensure the safety of the participants, the public, and the environment and to stimulate the Commercial Spaceflight industry
- ◆ Please support the International Space Safety Foundation, which in concert with IAASS, can greatly advance and promote international space safety!

