

REPORT OF THE ACADEMIC COMMITTEE

Joseph N. Pelton, Ph.D.
International Association for the Advancement of Space
Safety

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PUBLICATIONS

- ***Safety Design for Space Systems*** was published in 2009 by Elsevier. This book has essentially sold out its first printing of 1000 copies and is now into a second printing.
- ***Space Safety Regulations and Standards*** was published in mid year 2010 by Elsevier. A discount code for online purchase is 27059 for IAASS members. (Note: Both of these books are being translated and published in Chinese.)
- ***Safety Design for Space Operations*** (2013) with Elsevier and can now be ordered.
- ***The Need for an Integrated Regulatory Regime for Aviation and Space: An ICAO for Space?*** Published by Springer and available on Amazon.com
- ***Other activities***: A special edition of the Journal of the British Interplanetary Society was published in 2011 that was entirely devoted to space safety. A number of editorials have appeared in Space News as well in 2012 and 2013.

New Publication Initiatives

Handbook on Cosmic Hazards and Planetary Defense
with Joseph N. Pelton and Firooz Allahdadi as series editors. This would be a collaborative project with the International Space University, the International Space Safety Foundation, the Arthur C. Clarke Foundation, the Paradigm Foundation, and the International Association for the Advancement of Space Safety. This Springer Press edition would be a 2 volume 1200 page definitive publication on this subject. (IAASS and ISU logos to be noted on cover)

Another New IAASS Publication Initiatives
Space Safety and Human Performance is also projected to begin in June 2013 and be produced in 2014. Barbara Kanki is lead editor. The book will be a compendium of established knowledge in the field of psychological, physiological, psychosocial and environmental-interface challenges to crews, with particular reference to reduction of physical and cognitive performance that can adversely impact safety. This book by Elsevier will also present countermeasures and design features that can minimize adverse effects and impacts. The book will also cover traditional aspects of human factors relevant to safety in the IVA and EVA environment, as well as issues related to ground personnel in the loop (mission control centers, relationship between flight crew and ground personnel).

The Science of Space Safety is a further new initiative that is intended as a more journalistic effort with a broader audience.

ADDITIONAL ACADMEIC EFFORTS IN SPACE SAFETY

- The University of Southern California (USC) is now offering a graduate course in space safety based on “Safety Design for Space Systems” and there is now a pathway to for this to evolve into a certificate program and eventually a Masters. Discussions with other universities also continue with support from the IAASS and the ISSF.
- Exporting a Mentoring Program with the FAA Center of Excellence in Commercial Space

PANEL ON ACADEMIC, TRAINING & RESEARCH PROGRAMS

At the current conference Michael Kezirian, Joseph Pelton and Paul Kirkpatrick have organized a panel to discuss IAASS and ISSF current and future initiatives related to academic, training, and research programs in the space safety arena. You are invited to attend if you possibly can.