S 3.6 Study on Strategies and Concepts for Future Exploration and Commercial Development of the Solar System – the ISS and Beyond

The study aims at preparing a cosmic study on strategies and concepts for future exploration and commercial development of the solar system – the ISS and beyond. The goal is to facilitate the emergence of an international consensus concerning future exploration and commercial development of space (beyond the International Space Station) that will permit increasingly ambitious discoveries through-out the Solar System by human and robotics exploration, and promote profitable commercial development of space during the next 3-5 decades.

Intermediate goals are to establish a working community of future planners and innovators focused on the challenge of future exploration and commercial development of space, to identify and document a range of options for strategies and concepts, including (at high level) potential research and technology needs and opportunities, to identify and document the potential benefits of such approaches, to communicate effectively with the international aerospace community, decision-makers as well as the general public regarding the results of these efforts.

Timeline: cosmic study report available by October 2003

Head of the Study Group: JP Moura

Potential participants should express their interest by contacting the Academy at sgeneral@iaanet.org (also see IAA web site at IAA Commissions).

S 4.2 Study on Quality of Space Programs

The objective is to prepare a cosmic study on the quality of space programs. The overall goal is to improve the quality, reliability, efficiency, and safety of space programs, taking into account the overall environment in which they operate: financial constraints, harsh environments, space weather, long lifetimes, no maintenance, autonomy, international cooperation, norms and standard procedures, and certification.

Timeline: first cosmic study report available by October 2003 and final product by October 2005

Heads of the Study Group: Macgregor S. Reid, and Manola Romero

Potential participants should express their interest by contacting the Academy at sgeneral@iaanet.org (also see IAA web site at IAA Commissions).

S 5.1 Study on Space Debris Mitigation Rules for Launchers and Satellites

In the continuity of the two position papers already published by the Academy, the study aims at preparing, with two different subgroups - one for launch vehicles and one for satellites - the practical rules that should be used by manufacturers and the user community (owners of space systems, industry, operators, insurance companies, and lawyers). Close relationships will be established with the study group on space debris mitigation, IADC, the UN, and the various space agencies, which have already established space debris handbooks, so that efficiency and immediate results are obtained.