

56th IAA SYMPOSIUM ON SAFETY, QUALITY AND KNOWLEDGE MANAGEMENT IN SPACE
ACTIVITIES (D5)

For a successful space program : Quality and Safety! (1)

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SPACE CONTAMINATION REDUCTION AND SPACE DEFENSE IN THE TWENTY-FIRST
CENTURY**Abstract**

Space exploration has been ongoing for decades. Many obstacles and concerns have established since the first expedition into space in 1961. Space flight is challenging and hazardous due to a variety of health difficulties, technology malfunctions and a lack of experience/knowledge. Today, national security remains the major concern for ensuring peace and is continually expanding in a broader security perspective. Military, political, environmental and other aspects of security are all included in the idea of international security. Since the end of the first decade of the twenty-first century, scientists have been discussing a new aspect of international security: space security. The purpose of space security should ensure that everyone has access to and uses outer space. Today, we confront several space security issues, including satellite orbital congestion, space debris, the usage of nuclear power sources, the impacts and costs of space weather, and the possible use of space assault. Uncertainty is further exacerbated by a lack of international space vulnerability. Globally, all governments are willing to get involved in the extent of international space security. In Greek, Cosmos implies peace and order. Most people think of space as the universe. Outer space is often defined as the space beyond the atmosphere. Space hazards include any form of harm related with space are: Military risks, Threats to the structural integrity of spacecraft, Technogenic hazards linked with space flight planning and execution, Asteroid-comet collisions, Environmental dangers. Recently, an Azerbaijani student in his sophomore year at the University of Economy (UNEC) detected a mistake on the National Aeronautics and Space Administration's website and reported NASA. According to data submitted to APA by the university, the issue was fixed once the student of UNEC was notified. After the site's error notice, the student discovered information regarding NASA's SQL database, server, and driver. Attackers who gained access to NASA's infrastructure and systems through a loophole might conduct hacking assaults. The achievement of this student is an example for all of us. In addition, students' attitudes have shown to have great influence on their achievement of space science. Positive attitude and achievement in this field will allow students to continue to learn and take advanced courses at higher level post high school graduation. Attitude and good response and support from all parties including schools, teachers and parents will improve students' achievement on space science in ensuring continuity of this field to move forward in the future.