

IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)  
Interactive Presentations - IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM (IP)

Author: Mrs. Anna Pantya  
Centre for Energy Research, Hungarian Academy of Sciences, Hungary

CLASS-SPACE: FROM THE CLASSROOM TO SPACE!  
SCIENTIFIC EXPERIMENTS CONDUCTED PARALLEL IN CLASSROOMS AND AT THE  
INTERNATIONAL SPACE STATION.

**Abstract**

The HUN-REN Centre for Energy Research is one of the longest-established space research centers in Hungary. Over the past decades, nearly 100 instruments and experimental devices have been developed and designed here to be launched into space.

The "Class-Space: From classroom to space!" project aims to develop and implement an experimental programme to enhance understanding of space characteristics. This initiative creates national-level cooperation, and the experimental programme will be implemented in collaboration between the Hungarian astronaut planned to spend 30 days on board the International Space Station (ISS) in 2025 and groups of students from Hungarian schools. Within the project, 10 experiments will be developed and executed simultaneously by students in classrooms and the astronaut aboard the ISS. Schools across the country will have the opportunity to participate by conducting the experiments in parallel with the astronaut at their own facilities, for which the "Class-Space: From classroom to space!" project will provide the necessary equipment. Following the completion of the experiment series, students will be tasked with interpreting and evaluating the observed phenomena and publishing the results. Lessons learned will be thoroughly discussed, with a focus on applying the gained experience in future educational endeavors.

The overall aim of the project is to raise awareness and interest in scientific activities and to promote science, particularly among young people. The project will place a strong emphasis on developing students' skills, including creativity, individual and collaborative problem-solving and strategic thinking, which will prove beneficial not only in their scientific careers but also in various other aspects of life. Furthermore, establishing a network that facilitates professional connections between researchers and teachers is deemed crucial for laying the foundations for long-term cooperation.