

SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)

Poster Session (P)

Author: Dr. kenji ogimoto
SOUKI Systems Co. Ltd., Japan, v21gifu@yahoo.co.jp

REVIEW OF SYSTEM EDUCATIONS THROUGH SMALL AEROSPACE SYSTEMS

Abstract

The authors have been working on small aerospace vehicles, such as small experiment rockets, quasi-satellites, high-tech water rockets, small unmanned aerial vehicle (UAV), robotic rovers and so on, for the purpose of stimulating young engineers in private companies and students in engineering universities (in IAC2006, IAC2007, IAC2008, IAC2009, and IAC2010). For the last several years, these small vehicles proved to be useful to teach how to create a system concept and to manage its development. The authors summarize and discuss the evolution of these education tools and review the activities among several applications. Especially the evolution of a small educational rocket for Can-Sat. which will help to develop small quasi-satellites for young students and its spread in ASEAN countries will be discussed. Major contents will be; 1) Several examples of small aerospace vehicles will be reviewed. 2) Discuss the Can-Sat rocket and its development 3) Future scope of this education scheme These efforts will be maintained in the atmosphere where system education are closely connected to social needs on small aerospace systems. New education tools such as cube-sat and small electric vehicle will be developed in the near future, and will be reported in successive papers .