

SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)
Poster Session (P)

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FINDINGS FROM IAC 2013 YOUNG PROFESSIONAL WORKSHOP: TOOLS AND PROJECT
ORGANIZATION METHODOLOGIES THAT CAN BE IMPLEMENTED INTO THE SPACE SECTOR
FROM OTHER INDUSTRIES**Abstract**

Applied technologies in space sector are performing the sector the most complicated and challenging compared others. This complexity in space sector requires new alternatives for organization management and project development. Management strategies in an organization directly affect the project achievements. Project applications, improvement of economic earnings, relations among people in an organization, mentorships, motivation factors and international activities are other significant issues which is really critical for space sector. To discuss these important conditions, we were one of five groups at International Astronautical Congress, Young Professional Workshop in Beijing, 20th September 2013. Our group topic was “What tools and project organization methodologies have been and can be implemented into the space sector from other industries and the YPs’ experience (e.g. software, automotive)?”. As a group we have done several meetings prior to workshop. Result of pre-meetings, many ideas are emerged and reported. Pre-meeting report helped us to prepare clear individual materials for workshop. These different comments before workshop were (1) Agile software and engineering issues, (2) Process improvement techniques and learning from manufacturing multiple copies of the same space platform, (3) Organization’s social activities for internal motivation, (4) TRL improvement, (5) Project management and system engineering certification; NASA APPEL and Aerospace Corp examples, (6) Technology transfer among sectors like military-space, biology-space etc., (7) Experiences of JAXA, (8) Software tools that are used across industries. In the workshop, we’ve simplified these findings and made the final presentation. Moreover, preliminary survey questions are listed to be determined after workshop. In our final report, common grounds are summarized as (1) Software development tools, (2) Process improvement techniques, (3) Project management and system engineering certification, (4) Company organization structures. At the end of final report, group recommendations were done for each four topic and presented to IAF YP Committee.