

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

Author: Ms. Rong Sun

Beijing Institute of Aerospace Systems Engineering, China Aerospace Science and Technology Corporation
(CASC), China, sunrongcindy@gmail.com

Mr. Xubin Zhang

Beijing Institute of Aerospace Systems Engineering, China Aerospace Science and Technology Corporation
(CASC), China, 18701657651@139.com

Mr. Xueyan AN

Beijing Institute of Aerospace Systems Engineering, China Aerospace Science and Technology Corporation
(CASC), China, luwei.spacecraft@gmail.com

THE TRAINING PROGRAM OF MULTIDISCIPLINARY DESIGN OPTIMIZATION FOR
COLLABORATIVE SPACECRAFT DESIGN

Abstract

To achieve optimal performance of spacecraft by multidisciplinary collaborative design, the training of communication and cooperation can make the work more efficient. Considering that coupling between multidisciplinary makes the design difficult, engineers of different disciplines are encouraged to present the basic disciplinary knowledge and external interfaces with other disciplines, so that every engineer can notice the design emphasis and precaution. So the training program can help the designers to avoid faults in the multidisciplinary design process, as well as to optimize the functional performance of spacecraft. After the training, engineers can evaluate the fruits by testing the basic knowledge with each other and checking the results of simulation all together.