2011 Beijing Space Sustainability Conference

13-14 October, 2011

Ruxin Conference Center, Beihang University

Beijing, People's Republic of China

Thursday, 13 October

0900   **Welcome and Overview**
HUANG Hai, Beihang University
Brian WEEDEN, SWF
Angie BUKLEY, ISU

0915   **Overview of the UN COPUOS Agenda Item on Long-term Sustainability of Space Activities**
XU Yu, Chinese Ministry of Foreign Affairs (PRC)

0945   **Space Debris Mitigation**
Current research on population size and growth (Beihang – PRC)
Optical Tracking of Space Debris – Igor MOLOTOV, ISON (Russia)
Human Spaceflight Protection (CASC – PRC)
Prof. Zhuang Fengyuan, BUAA (PRC)

1100   **Break & Group Photo**

1130   **Space Debris Removal Techniques and Challenges**
Zhang Ze, Beihang University (PRC)
Claudio BOMBARDELLI, Technical U. of Madrid (SPAIN)
Qu Changhong , CAEP(PRC)

1245   **Lunch**

1415   **Safe Space Operations**
Analysis of Close Approaches between Small satellites and Catalogued Objects -CHEN Shenyan , BUAA(PRC)
New material of shield anti hypervelocity impact – XU Aiguo, Institute of Applied Physics and Computational Mathematics (PRC)
SHEN Junfeng, Shanghai Institute of Satellite Engineering (PRC)

1530   **Break**

1600   **Tools to Support Collaborative Space Situational Awareness**
Global SSA Sensor Website – Brian WEEDEN, SWF (USA)
Software and Algorithms - Dr. Paul CEFOLA, U. of Buffalo (USA)
International Data Standards – SONG Qiang, CALT (PRC)
Clouds in Space – Dr. Steven JOHNSTON, U. of Southampton (UK)

1730   **Day 1 Wrap-up**

Friday, 14 October

0900   **National Efforts for Implementation of Space Debris Mitigation Guidelines**
       China – LI Bin, Beihang University / SASTIND (PRC)
       UK – Richard TREMAYNE-SMITH, Out of Space (UK)
       Japan – Dr. Yukihito KITAZAWA, IHI Corporation (Japan)
       International cooperation –WU Cunsi, Shanghai (PRC)

1030   **Break**

1100   **Space Weather**
       Overview of Space Weather Threat, Detection, Warning and Sharing – Terry ONSAGER, NOAA (USA)
       Chinese KuaFu satellite – CASC (PRC)

1200   **Day 2 Wrap-up and Conclusions**