

**International Academy of Astronautics**  
6 rue Galilée, BP 1268-16, 75766 Paris Cedex 16  
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**IAA Commission IV**  
**Space System Operation and Utilization**  
**Dr. Leon Alkalai, Chair**  
**Dr. Filippo Graziani, Co-Chair**

**Report on the Commission IV Meeting**  
**IAC 2012, Naples, Italy**  
**September 30<sup>th</sup>, 2012**

**1. Attendance:**

Filippo Graziani – member, Co-chair  
Tibor Balint – member, Secretary  
Rene Laufer - member  
Arnoldo Valenzuela - member  
Michael Ovchinnikov – member  
Rhoda Hornstein – guest  
Larry Paxton – guest  
Sergey Lysy - guest  
Rainer Sandau – guest  
Olga Ovchinnikova – guest  
Ajax Melo - guest  
David Kusnierkiewicz – guest

**2. Approval of the Report on Last Meeting**

The minutes of the previous meeting in Paris, March 2012 were approved as distributed.

**3. Adoption of the Agenda**

The agenda for the meeting was approved without objection.

## **4.1 Reports of On-Going Study Groups**

### **4.1 Knowledge Management, Jeanne Holm.**

- I. Study Completed. Briefing to Commission IV on key results completed.**
- II. Action: Compile key messages to be transmitted to the SAC in Paris 2013.**

### **4.5 Hitch-hiking to the Moon, Leon Alkalai.**

- I. Proposed to close study group. Proposal accepted.**
- II. Leon proposes to close the study group due to lack of progress. This is in part due to the change of focus following the US Planetary Decadal Survey, away from the Moon. Consequently, in the near term opportunities for lunar exploration stepped back to a formulation and planning phase. However, in recent year there has been a renewed interest in lunar exploration, so this topic may become more relevant in the near future.**

### **4.8 Space-Systems Cross-Compatibility, Esper & D'Errico.**

- i. Study Completed.**
- ii. Final report has been submitted to the Commission IV for review and is planned to be published at the IAA Symposium on Small Satellites in Berlin, April 2013.**
- iii. Marco will give an overview to Commission IV and any key messages to the SAC.**

### **4.9 International Aerospace System for Monitoring ..., Menshikov**

- i. Study Completed.**
- ii. Final report has been submitted to the Commission IV for review.**
- iii. Study Lead to discuss overview of study report with Commission IV.**

### **4.10 Distributed Space Missions for Earth System Monitoring, D'Errico & Wertz**

- i. Study Completed, Reviewed and Published! Congratulations!**
- ii. Marco to brief Commission IV and any message to be carried to the SAC.**

### **4.11 Coordination and Cooperation for Global Environmental ..., Gu, Xingfa**

- i. No word from this study group!**

## **4.2 Commission IV New Study Group proposals**

Commission IV is considering two new study groups as follows:

1. International Standardization on University Small Satellites, Nakasuka et. al.
2. Use of small satellites to solve world's problems, Larry Paxton et. al.

## **4.3 Discussion of Study Groups from other commissions**

Discussion of 3 new proposed study groups from Commission III that have Commission IV relevance? Does Commission IV support these new study groups?

1. Public/Private Human Access to Space – Vol. 2: Earth Orbit and Beyond, proposed by John Makins and G. Reibaldi
2. Long Term Space Propellant Depot, Proposed by Lu Yu
3. Global Human Mars System Missions Exploration: Goals, Requirements and Technologies, proposed by G. Reibaldi and C. Bonnal

Whereas Commission IV supports these three proposed new commission studies, the Commission decided not to collaborate with the Commission III studies at present, because they were found not to be directly related to current Commission IV activities.

## **5- IAA Commission Conferences**

### **5.1 Future Conferences**

1. Small Satellite conference in Rome, February 2-9, 2013, Specifically for cube satellites
2. Berlin conference in March 8-12, 2013, Deadline for abstracts is October 15; also submission for student competition

### **5.2 Status of Sessions for IAC Congress**

## **6- Acta Astronautica**

## **7-Future Activities**

## **8- AOB**

## Appendix 1

### Attendees

<i>Name</i>	<i>e-mail</i>	<i>fax</i>
Filippo Graziani – member, Co-chair		
Tibor Balint – member, Secretary		
Rene Laufer - member		
Arnoldo Valenzuela - member		
Michael Ovchinnikov – member		
Rhoda Hornstein – guest		
Larry Paxton – guest		
Sergey Lysyy - guest		
Rainer Sandau – guest		
Olga Ovchinnikova – guest		
Ajax Melo - guest		
David Kusnierkiewicz – guest		

## **Appendix 2**

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### **Commission on**

#### **Agenda**

1. Approval of Minutes
2. Approval of Agenda
3. Reports of Study Groups
4. Status of Stand Alone Conferences and Sessions for IAC
5. Future Activities
6. Any Other Business