IAA COMMISSION 2 on Space Life Sciences
Open Coordination Meeting
March 18, 2013, 14:30 – 17:00 p.m.

IAA Offices,
6 rue Galilée,
Paris, France 75116

Minutes

1. Welcome & Introductions
Dr. O. Orlov, Commission 2 Vice-chair, welcomed the commission members and others to the meeting. Attachment 1 contains the Agenda for the present meeting (see Attachment 1). 18 persons attended the meeting, including five commission members (see Attachment 2). The Minutes from the last commission meeting in Naples on September 30, 2012 were reviewed and accepted.

2. Reports: Report from the Board of Trustees, IAA News, SAC Report
Dr. R. Gerzer, chair of Section 3, reported on the previous and pending actions of the Board of Trustees. Drs. P. Graef and O. Orlov, Commission 2 Vice-chairs, provided additional information concerning IAA and the activities of the Scientific Activities Committee, including the main results of last Commission plenary meeting held on March 18, 2013.

3. Study Group Proposals/Activities
3.1. Status/Progress report from Study Group chairs:

3.1.1. Study Group 2.8 “e-Learning in Space Life Sciences” (Chair: Dr. Ch. Kourtidou-Papadeli) was completed and provided a position paper. The pre-review of this study group report was also completed. The final report was approved by Commission 2 and sent in for full peer review by the IAA on January 28, 2013.

3.1.2. Study Group 2.9 “Guidelines for Standardization of Bed Rest Studies in the Spaceflight Context” (Chairs: Drs.: O.Orlov and P. Sundblad) was completed and provided a copy of the final report. This report was peer-reviewed and approved by the Commission 2. On February 4, 2013 it was sent in for full peer review by the IAA.

3.2. Discussion of new proposals
Three following SG proposals submitted to Commission 2 were discussed at the meeting:

3.2.1. SG 2.12 “Effectiveness of Different Physiological Countermeasures to Spaceflight Deconditioning”. The proposal was submitted by Drs. J. Davis (NASA), J. Charles (NASA), I. Kozlovskaya (IBMP), P. Sundblad (ESA) and J.Rittweger (DLR). Overall goal is to collect and summarize evidence of the effectiveness of physiological countermeasures for the protection of human health in space and present a state of the art and needed forward work for future manned deep space exploration missions. Time line of this SG is three years. Chairs of study team are Drs. J. Charles and I. Kozlovskaya. Secretary is Dr. P. Norsk (USRA/NASA). The proposal for Study Group 2.12 was reviewed and approved by Commission 2.
3.2.2. SG 2.13 “Position Paper on Space Life Sciences in the Exploration Era”. The proposal was submitted by Drs. R. Gerzer (Germany) and R. White (USA). Overall goal is to prepare a position paper on space life sciences which will be presented at the Heads of Space Agencies Summit on Exploration in Washington, DC on January 9-10, 2014. Time line is six months. Secretary of study team is J. Rittweger (Germany). The proposal for Study Group 2.13 was reviewed and approved by Commission 2.

3.2.3. SG 2.14 “Medical Support for an International Human Expedition to Mars». The proposal was submitted by Drs. O. Orlov (Russia), J. Davis (NASA), M. Zell (Germany), P. Graef (Germany) and Ch. Mukai (Japan). Overall goal is to define and agree internationally the basic principles of medical support for future manned deep space exploration missions including flight to Mars. Time line of this SG is three years. Chairs of study team are Drs. O. Orlov and J. Davis. Secretary is Dr. A. Kussmaul (Russia). The proposal for Study Group 2.14 was reviewed and approved by Commission 2.

4. Program Preparation Activities

Dr. Zhuang, Trustee and coordinator of A.1 Space Life Sciences Symposium, reported that 156 abstracts have been received for this Symposium and the eight respective technical sessions. All Co-chairs and Rapporteurs have been identified and they are ready to make the paper selection on this week. One proposal has been submitted to IAF for the plenary event. Its topic is "Role of International Innovation in Accelerating Future Human Space Exploration". This is a joint proposal by the IAF Human Space Endeavors Committee (Mr. John Uri) and the IAF Space Life Sciences Committee (Dr. Ronald White). Preliminary list of its participants: William Gerstenmaier (NASA), Jan-Dietrich Wörner (DLR), Thomas Reiter (ESA), Steve Maclean (CSA), Chiaki Mukai (JAXA). Moderator is Dr. Jeffrey Davis (NASA). Dr. Zhuang informed participants of meeting also that prior to beginning of 64th IAC (September 20, 2013) the China Astronaut Research and Training Center in conjunction with the Chinese Society of Astronautics, IAF and IAA plans to hold satellite Symposium on Space Medicine and Humans Health.

4.2. Status Report: 19th Humans in Space Symposium, July 7-12, 2013, Cologne, Germany
Dr. Rupert Gerzer, Trustee and Symposium President, informed the Commission that the preparations for the Symposium are performed according to plan. The main theme of the Symposium will be “Linking the challenges of space exploration with medicine on Earth.” DLR is currently constructing a major new research facility named: envihab that will be operational in the days of the Symposium. The scientific program of the Symposium will include four plenary events, twelve technical sessions and two poster sessions. All chairs and Co-chairs have been confirmed. Program Committee of Symposium has received more than 300 abstracts. Abstract submission has been completed. The International Humans in Space Youth Art 2012 Competition is closed. The greatest number of children's art works has been received from Russia and China. Winners will be announced on the website in April 2013. The overall results of this competition will be discussed at a special session on the first day of the Symposium.
4.3. Solicitation for Proposals to host the 20th Humans in Space Symposium in 2015
Dr. P. Graef provided a current schedule of activities related to the selection of a site for the 20th Humans in Space Symposium to be held in 2015. IAA prepares the call for hosting this Symposium. Commission 2 is in charge of the competition and selection of its site in usual way.

4.4. Preparations for 65th IAC in Toronto, September 29 – October 3, 2014
Discussion focussed on the development of a programme proposal for the A.1 Space Life Sciences Symposium for Toronto in light of the fact that Commission leads (Chair, Vice-Chair and Secretary) cannot be in charge of a study or a symposium/conference or being IAC symposium coordinator. According to the new IAA rules the symposium should be organized in partnership of IAA with IAF Technical committee on space life sciences. For this purpose two Co-chairs of symposium should be appointed (one co-chair from each side). Ideas for plenary session subjects and new proposals for program activities were discussed.

5. Next Meeting and Work between Meetings
5.1 Commission 2 Meeting in Beijing – Saturday or Sunday, September 21 or 22, 2013.
IAA COMMISSION 2 on Space Life Sciences
Open Coordination Meeting
Monday, March 18, 2013
14:30 – 17:00

IAA Offices
6 rue Galilee
Paris, France 75116

Agenda

1. Welcome & Introductions
   • Review of minutes from last commission meeting in Naples, September 30, 2012

2. Reports: Report from the Board of Trustees, IAA News, SAC Report

3. Study Group Proposals/Activities
   3.1. General overview
   3.2. Status/Progress report from Study Group chairs
       • SG 2.8 e-Learning in Space Life Sciences (Kourtidou-Papadeli)
       • SG 2.9 International Standards for Bed Rest Studies (Sundblad/Orlov)
   3.3. Discussion of new proposals
       • SG 2.12 Effectiveness of Different Physiological Countermeasures to Spaceflight Deconditioning (Davis/Charles/Kozlovskaya/Sundblad/Rittweger)
       • SG 2.13 IAA/IAF Position Paper on Space Life Sciences in the Exploration Era (Gerzer/White)
       • SG 2.14 Medical Support for an International Human Expedition to Mars (Orlov/Davis)

4. Program Preparation Activities
       4.1.1. Space Life Sciences Symposium (A.1) – Dr. Zhuang
       4.1.2. Special Sessions – Plenary Event: Role of International Innovation in Accelerating Human Space Exploration – Dr. Davis
   4.2. Status Report: 19th Human in Space Symposium, July 7-12, 2013, Cologne, Germany
       4.2.1. Plans, Paper Submission, Art Activities & Announcements – Dr. Gerzer
   4.3. Solicitation for Proposals to host the 20th Human in Space Symposium in 2015
       4.3.1. Call for proposals to host the 20th Humans in Space Symposium in 2015
           • Call to be issued by IAA Office
           • Our Commission in charge of competition and selection
   4.4. Preparations for 65th IAC in Toronto, September 29 – October 3, 2014
       4.4.1. Space Life Sciences Symposium (A.1) – Partner with IAF Technical Committee – One co-chair from each
       4.4.2. Plenary Session proposals – Ideas for discussion
   4.5. Discussion of new proposals for program activities

5. Next Meeting and Work between Meetings
   5.1 Commission 2 Meeting in Beijing – Saturday or Sunday, September 21 or 22, 2013

6. Other Business
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## IAA Commission 2 meeting
Attendance list 18 March 2013, Paris

### Guests (no voting rights)

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