



**IAA COMMISSION 2 on Space Life Sciences
Open Coordination Meeting
Sunday, September 30, 2012
Naples, Italy**

Minutes

1. Welcome & Introductions

Dr. R. White, Commission 2 Chair, welcomed the commission members and others to the meeting. Attachment 1 contains the Agenda for the present meeting (see Attachment 1). Twenty-five persons attended the meeting, including eight commission members (see Attachment 2). The minutes from the last commission meeting in Paris on March 12, 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. He also informed the meeting participants about main results of the SAC meeting held on September 29, 2012. Dr. R. White provided additional information concerning IAA and the activities of the Scientific Activities Committee.

3. Study Group Proposals/Activities

Dr. Kourtidou-Papadeli, Trustee, reported that Study Group 2.8 on *e-Learning in Space Life Sciences* has been completed and provided a position paper that will be subjected to a Commission 2 review. Dr. Sundblad, Commission member, reported that Study Group 2.9 on *International Standards for Bed Rest Studies* was completed and provided a copy of their final report. This report will now be reviewed by the Commission. Dr. Macleish reported that the report from Study Group 2.10 on *International Cooperation for Space Exploration Knowledge Sharing and Development in Africa* has not yet been approved by the Board of Trustees for release. No additional feedback on the final peer review of the report has been provided.

Two new proposals were discussed at the meeting, *Study of the effectiveness of different countermeasures to space deconditioning* and *Study of the effectiveness of telemedicine as a diagnostic method for space and Earth medicine*. Drs. J. Davis, Ch. Mukai, P. Sundblad and Sh. Chen were in favor of the usefulness of work on the proposal "Study of the effectiveness of different countermeasures to space deconditioning." Dr. Kozlovskaya also supported this theme, but because of the need to summarize and analyze large amounts of data she recommended to divide this proposal into two proposals - the study of the effectiveness of countermeasures used in actual space flight and the study of countermeasures used during the ground modeling of physiological effects of weightlessness. Despite the importance of such research, Dr. R. Gerzer expressed his skepticism about the possibility of the successful development of this theme under a Study Group due to the complexity of analysis of the database available to the specialists from different countries involved in the support of space manned missions on the ISS. According to Dr. J. Davis' opinion, development of the final version of the proposal should be assigned to Drs. John Charles (NASA), Inessa Kozlovskaya (Russia), Patrik Sundblad (ESA), and Jörn Rittweger (DLR). This was agreed to.

As far as proposal "Study of the effectiveness of telemedicine as a diagnostic method for space and Earth medicine," Dr. Gerzer had supported this area of work, but as one of the main participants in this work he suggested to widen the title into: "Satellite



applications for health benefits in emerging countries” and involve the International Society for Telemedicine and eHealth (ISfTeH), African partners and members of other IAA Commissions (help during emergency events, weather forecast from space, etc.). This was agreed to and Drs. Orlov and Gerzer will address this issue. Finally, the Commission recommended to the authors of both of these proposals to make formal application to launch a study group and submit them to the Commission 2 for reconsideration before the next Commission meeting in Paris. Members were requested to define a third proposal during this same time period.

4. Program Preparation Activities

Dr. White provided a summary of the status of the 63rd IAC in Naples. The Space Life Sciences Symposium (A.1) has eight technical sessions and all sessions have been filled, with more than 120 oral papers and additional posters. The Symposium should be a success. Dr. Jeff Davis, Commission member, and Ms. Elizabeth Richard reported on the plenary event *Improving the Quality of Life on Earth – Societal Impacts of Human Spaceflight* and the Cluster Forum under the same name. The event, to be held on Wednesday, October 3, is sponsored by the Wyle Corporation in partnership with NASA and the DLR.

Dr. Rupert Gerzer provided an update on the multiple activities being planned for the 19th Human in Space Symposium, to take place in Cologne, Germany on July 7-12, 2013. This symposium is only one of several overlapping activities taking place in Cologne during July and each strengthens the other. Dr. Jancy McPhee reported on the plans and status of the international Humans in Space Youth Art Competition, one of the special events connected with the Symposium. Dr. J. McPhee had also informed meeting participants about change of deadline for application of art works from October 20th to the mid November, 2012.

Dr. White provided a schedule of activities related to the selection of a site for the 20th Human in Space Symposium to be held in 2015. The call for proposals to host the meeting will be released in November 2012. Proposals will be due by February 2013 and will be discussed at the March 18, 2013 Commission meeting in Paris. Selection of the site will be announced at the 19th Symposium in Cologne.

The preparation for the 64th IAC Meeting to be held in Beijing, September 23-27, 2013 was discussed by Drs. Chen and Zhuang. The Life Sciences Symposium (A.1) will again have eight sessions and all Co-Chairs and Rapporteurs have been identified. In addition, Dr. Chen presented ideas for plenary sessions.

5. Next Meeting and Work between Meetings

The next Commission 2 Meeting will be in Paris on Monday, March 18, 2013, at IAA HQ.

6. Other Business

Dr. J. Davis had informed participants about the existence of a new international Aerospace Medical Association Foundation scholarship for students (from any of 17 sciences disciplines) to enable participation in scientific meetings and conferences.



**IAA COMMISSION 2 on Space Life Sciences
Open Coordination Meeting
Sunday, September 30, 2012
8:00 – 10:00 a.m.**

**Ischia Room
PALACONGRESS
Naples, Italy**

Agenda

1. Welcome & Introductions

- Review of minutes from last commission meeting in Paris, March 12, 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/Horneck/Bamidis)
- SG 2.9 International Standards for Bed Rest Studies (Sundblad/Orlov)
- SG 2.10 International Cooperation for Space Exploration Knowledge Sharing and Development in Africa (Macleish)

3.3. Discussion of new proposals

- Study of the effectiveness of different countermeasures to space deconditioning
- Study of the effectiveness of telemedicine as a diagnostic method for space and Earth medicine.

4. Program Preparation Activities

4.1. Status Report: 63rd IAC in Naples, October 1-5, 2012

4.1.1 Space Life Sciences Symposium (A.1) – Dr. Orlov

4.1.2 Special Sessions – Dr. Davis/ Ms. Richard

4.2. Status Report: 19th Human in Space Symposium, July 7-12, 2013, Cologne, Germany

4.2.1 Plans, Preparatory Activities & Announcements – Dr. Gerzer

4.2.2 Youth Art Competition – Dr. McPhee

4.3. Solicitation for Proposals to host the 20th Human in Space Symposium in 2015

4.3.1 November 2012 - Call for proposals to host the 20th Humans in Space Symposium in 2015

4.3.2 March 2013 Commission meeting - Discussion of proposals

4.3.3 Selection of 20th Humans in Space Symposium host

4.4. Preparations for 64th IAC in Beijing, September 23-27, 2013

4.4.1. Space Life Sciences Symposium (A.1) – Drs. Chen & Zhuang

4.4.2. Plenary Session proposals – Dr. Chen

4.5. Discussion of new proposals for program activities

5. Next Meeting and Work between Meetings

5.1 Commission 2 Meeting in Paris – Monday, March 18, 2013, IAA HQ Paris

6. Other Business



Attachment 2

IAA Commission 2 meeting			
Attendance list 30 September 2012 Naples, Italy			
Name	Firstname	Signature	
Buckley	Nicole D		Member
Chen	Shanguang	<i>Shanguang Chen</i>	Member
Davis	Jeffrey R	<i>Jeffrey Davis</i>	Member
Ehrenfreund	Pascale	<i>Pascale Ehrenfreund</i>	Member
Graef	Peter	<i>P. Graef</i>	Past Chair
Katuntsev	Vladimir P	<i>V. Katuntsev</i>	Secretary
Orlov	Oleg I		Vice Chair
Rettberg	Petra	<i>P. Rettberg</i>	Member
Sundblad	Patrik	<i>Patrik Sundblad</i>	Member
White	Ronald J	<i>R. White</i>	Chair
Guests (no voting rights)			
<i>Ushakov</i>	<i>Igor</i>	<i>Igor Ushakov</i>	
<i>Bourhood Ueh</i>		<i>BU2</i>	
<i>GERZER</i>	<i>RUBERT</i>	<i>Rubert</i>	



IAA Commission 2 meeting			
Attendance list 30 September 2012 Naples, Italy			
Name	Firstname	Signature	
ELIZABETH RICHARD	ELIZABETH		
KOURTIDOU-PAPADELI	CHRYSOULA		
CHIHIKI MUKAI	CHIAKI		
ULLRICLI	OLIVER		
McPhee	Jang		
Vincent Boles	Vincent		
Kanas	Nick	Nick Kanas	
MASMOUDI mustapha			
MacLeish	Marlene		
Melo	Agax		
Fengyuan ^{Zhuang}		F.Y.Zhuang	
J. Kozlovskaya	Jnessa	J. Kozlovskaya	
Dumitru-Domin PREINARIU			
HELLWEG	CHRISTINE	C. Hellweg	