

## IAA COMMISSION II

Life Sciences  
Coordination Meeting

October 16, 2005 09:00 – 12:00

Location:  
Fukuoka International Conference Centre  
2-1 Sekijo-machi, Hakata-ku  
Room SP-2

### Summary minutes

1. Due to the non-availability of **G. Horneck** the meeting was chaired in the first part by **I. Kozlovskaya (former chair)** and in the second part by **J. Rummel, vice chair of commission II**. When welcoming the participants I. Kozlovskaya briefly reported on the activities happened since the last meeting in Vancouver and outlined the objectives for the present meeting. She asked participants to introduce themselves to the group. A list of participants of the meeting is enclosed (Annex I).
2. The **draft agenda** – distributed to participants prior to the meeting – was agreed upon (Annex II). Copies of the draft minutes from last Commission II meeting in Paris have been handed to participants for comments (during IAC by e-mail to **K. Kreuzberg**). The final version of these minutes will be sent to participants by end of the week and will be also available on the IAA website (<http://www.ianet.org/commissions/>).
3. **Scientific Activities Report, last Board of Trustees**  
**R. White** informed participants on the results of the last meetings of the Board of Trustees. In his introductory remarks he clarified the role of the commission (activities) and of sections (members and memberships). Regarding the discussion in the board of trustees more attention has to be paid to gender equity and attracting younger members. Mr. White underlined the role of the different boards and committees and their interplay in the integrated decision process. The secretary has been asked to check for the availability of short written procedures and rules and distribution to all participants. The newly elected board will deal with the relationship with COSPAR, but as far as known no special procedure for the proposal of IAA memberships will be accepted for COSPAR.
4. **Study Group proposals/activities**
  - 4.1 **Study Groups**  
**Current Studies Status: The commission 2 has for the time 5 study groups to be dealt with:**
    - SG 2.1. Mathematical Modeling & Physiological Simulation: **R. White** informed that a detailed outline on the Digital Astronaut/Cosmonaut will be on 18 October 2005. A plenary meeting took place in Vancouver and a small meeting in Graz. A status report

has been made available to the participants. The final report will be written section by section and completed within one year.

SG 2.2: Artificial Gravity as a Tool in Biology & Medicine, L. Young: The first meeting took place in Vancouver with 16 participants ~~place in Vancouver~~. The second meeting in Graz counted 20 participants. A large report is available for participants and will be reviewed on Tuesday at 1:30 hrs in the final meeting of the group. The report will be subsequently submitted to IAA. It will contain recommendations on the utilization of short and large radius centrifuges, on how to produce artificial gravity and on the design. A plenary session has been proposed for the IAC in Valencia. Commission II recommended, that the group should orientate its final report on approved reports available. The set up of the review committee should be beforehand discussed with D. Kline. In this context Prof. Young announced the 7<sup>th</sup> symposium on the role of vestibular organs in space exploration, Noordwijk, June 7-9, 2006, (<http://www.congrex.nl/06A07/>).

SG 2.3: Biosystems for future extraterrestrial habitats and in terrestrial applications. No status report has been available. Prof. **Gerzer** informed that the work has less advanced since Prof. Gitelson has been not ready for meeting. As of today ms E. Rabbow will support Prof. Gerzer in Germany. The names of participants are still under review. A first meeting is now scheduled to take place in Moscow. The finalisation of the study is for 2007 expected.

SG 2.4: Psychology and Culture in Long Duration Space Missions. A status report has been delivered. **N. Kanas** informed that the groups has 20 members and 4 subgroups. The final report is in progress and the draft finalised on 17.10.05. The editing of the report will be done during the rest of year and the final report thus available for the Paris meeting in spring 2006.

SG 2.5. Astrobiological Studies of Solar Systems, no report delivered at the meeting. **J. Rummel** reported that meetings took place in Washington and Noordwijk. The final draft is expected for March 2006, finalization to take place during 2006 and the final report ready by end of 2006.

#### **4.2 Future directions/topics: Discussion on new proposals:**

- Prof. M. Antunano made a proposal for a new study group on “Medical and psychological issues for passengers of commercial spaceflight”. The proposal is available and will be forwarded for approval.
- Dr. M. Heer made a proposal for a study on “ Integrative Physiology in Long-duration Space Flight: Nutritional Aspects”. The proposal is available and will be forwarded for approval.

### **5. Programme preparation activities**

#### **5.1 General**

No general remarks.

### **5.2.1 Status for 56<sup>th</sup> IAC Fukuoka**

Due to travel restrictions some session will have reduced contribution, but no session is foreseen to be deleted.

### **5.2.2 15th Human in Space Symposium, Graz, 22 – 26 May, 2005**

The meeting was thanks to Prof. H. Hinghofer-Szalkay a big success. A detailed report is expected by Prof. Hinghofer at the occasion of one of the next meetings.

### **5.3 Status for the preparation of 57<sup>th</sup> IAC 2006 in Valencia, Spain**

Programme preparation and organisation seem to be in a good shape. Spanish organizer very engaged.

### **5.4 Status of the programme proposal for the 58<sup>th</sup> IAC in New Delhi, India**

Topic not treated for lack of time.

### **5.5 Preparation of 59<sup>th</sup> IAC**

Topic not treated for lack of time.

### **5.6 Human in Space 2007 in China, Beijing, IAA 16<sup>th</sup> Humans in Space,**

Prof. Zhuang, Beihang University (BUAA) made a detailed presentation to the participants (Annex III). The commission discussed the proposal and recommended it with request for clarification of still open questions.

## **6 Next meeting and work between meetings**

The next meeting of IAA Commission II will take place in spring 2006 in Paris. Draft agenda will be sent to all Commission II members in advance to the meeting.

## **7 Any other business**

J. Rummel initiated a discussion on a possible resolution by the commission to space agencies on the consideration of life sciences in future programmes. Discussion to be continued.

K. Kreuzberg

## IAA COMMISSION II

### Life Sciences Coordination Meeting

October 16, 2005 09:00 – 12:00

Location:  
Fukuoka International Conference Centre  
2-1 Sekijo-machi, Hakata-ku  
Room SP-2

### List of participants

	<b>Name</b>	<b>Christian name</b>	<b>Affiliation</b>	<b>E-Mail address</b>
1	Buckley	Nicole	CSA	<a href="mailto:nicole.buckley@space.go.ca">nicole.buckley@space.go.ca</a>
2	Fei	Binjun	Beijing Aeronautics Astronautics Univ	<a href="mailto:feibj@buaa.edu.cn">feibj@buaa.edu.cn</a>
3	Fuller	Charles	Univ. Calif. Davis	<a href="mailto:cafuller@ucdavis.edu">cafuller@ucdavis.edu</a>
4	Gerzer	Rupert	DLR	<a href="mailto:Rupert.gerzer@dlr.de">Rupert.gerzer@dlr.de</a>
5	Heer	Martina	DLR	<a href="mailto:martina.heer@dlr.de">martina.heer@dlr.de</a>
6	Kanas	Nick	Univ. California San Francisco	<a href="mailto:nick21@itsa.ucsf.edu">nick21@itsa.ucsf.edu</a>
7	Kreuzberg	Karlheinz	ESA	<a href="mailto:karlheinz.kreuzberg@ESA.int">karlheinz.kreuzberg@ESA.int</a>
8	Koch	Bernhard	DLR	<a href="mailto:bernhard.koch@dlr.de">bernhard.koch@dlr.de</a>
9	Kozlovskaya	Inesa	IMBP	<a href="mailto:ikozlovs@mail.ru">ikozlovs@mail.ru</a>
10	McPhee	Jancy	NASA-JSC/USRA	<a href="mailto:jancy.c.mcphee1@jsc.nasa.gov">jancy.c.mcphee1@jsc.nasa.gov</a>
11	Ren	Wei	Chinese Astronaut Center	<a href="mailto:renwei1964@vip.sina.com">renwei1964@vip.sina.com</a>
12	Rummel	John	NASA HQ	<a href="mailto:jrummel@hq.nasa.gov">jrummel@hq.nasa.gov</a>
13	Ruyters	Guenter	DLR	<a href="mailto:guenter.ruyters@dlr.de">guenter.ruyters@dlr.de</a>
14	Paloski	William	NASA/JSC	<a href="mailto:william.h.paloski@nasa.gov">william.h.paloski@nasa.gov</a>
15	White	Ronald	USRA	<a href="mailto:white@dsls.usra.edu">white@dsls.usra.edu</a>
16	Young	Laurance	USALMIT	<a href="mailto:LRY@mit.edu">LRY@mit.edu</a>
17	Zhuang	Fengyuan	Beijing Aeronautics Astronautics Univ	<a href="mailto:zhuangfy@buaa.edu.cn">zhuangfy@buaa.edu.cn</a>

## IAA COMMISSION II

Life Sciences  
Coordination Meeting

October 16, 2005 09:00 – 12:00

Location:  
Fukuoka International Conference Centre  
2-1 Sekijo-machi, Hakata-ku  
Room SP-2

### Draft Agenda

1. Welcome/ Introduction
2. Review of minutes from last Commission II meeting in Paris
3. Reports by the Chair: Scientific Activities, Board of Trustees, general news from IAA
4. Study Group proposals/activities
  - 4.1 General overview
  - 4.2 Status/Progress report from Study Groups chairmen
  - 4.3 Discussion on new proposals
5. Programme preparation activities
  - 5.1 General
  - 5.2 Status for the 15th Human in Space Symposium, Graz, 22 – 25 May, 2005
  - 5.3 Status for 56<sup>th</sup> IAC Fukuoka
  - 5.4 Status for the preparation of 57<sup>th</sup> IAC 2006 in Valencia, Spain
  - 5.5 Status of the programme proposal for the 58<sup>th</sup> IAC in New Delhi, India
  - 5.6 Preparation of 59<sup>th</sup> IAC
6. Next meeting and work between meetings
7. Any other business