

## IAA COMMISSION II

Life Sciences  
Coordination Meeting

March 22, 2005 8h00 – 11h00

Location: Immeuble Aeroclub de France  
6, rue Galilee, 75016 Paris  
Mezzanine room

### Summary minutes

1. The meeting was chaired by **G. Horneck**. When welcoming the participants G. Horneck briefly reported on the activities happened since the last meeting in Vancouver and outlined the objectives for the present meeting. She asked the participants to propose candidates for the Vice-Chair. 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 Vancouver have been handed to participants for comments and agreed upon. The final version of these minutes have already send to participants and is 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. Concerns have been raised regarding
  - Gender equity, urgent actions necessary
  - Regional under-representation (e.g. Italy missing due the small number of Italian members)
  - Problem of understanding of basic science between (Space) Science and Life Sciences (smallest section in IAA)

#### 4. Study Group proposals/activities

##### 4.1 Study Groups

###### Current Studies Status:

SG 2.1. Mathematical Modeling & Physiological Simulation: The Digital Astronaut/Cosmonaut: report delivered at meeting, a plenary meeting took place in Vancouver, a satellite meeting in San Diego, final report planned for Oct. 2005.

SG 2.2: Artificial Gravity as a Tool in Biology & Medicine, written report delivered at meeting, the oral report will be delivered during next meeting scheduled at human in space symposium in Graz,

SG 2.3: Biosystems for future extraterrestrial habitats and in terrestrial applications, no report available, Chair of the study group has been handed over to Mr. Gerzer. 1<sup>st</sup> meeting took place in Krasnojarsk, Russia, further meetings have been scheduled at the same place. DLR has plans to build an habitat at Cologne.

SG 2.4: Psychology and Culture in Long Duration Space Missions, report delivered at the meeting, several meeting of the study group took place, new participants due to increased turnover, good response to the announcement for Graz and Fukuoka.

SG 2.5. Astrobiological Studies of Solar Systems, no report delivered at the meeting, study group meeting in Vancouver took place, further workshop foreseen in September 2005. Problem with the topic of planetary protection due to replanning activities within NASA.

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

- Prof. M. Antunano suggested a new study group on “Medical and psychological issues for passengers of commercial spaceflight”. A small task group was formed to formulate a proposal.  
Prof. Gerzer reported on needs for
  - Clarification on membership
  - Decision in SPC can be only sought ad referendum
  - Discussion with commission 5 necessary
- Dr. M. Heer suggested a study on “ Integrative Physiology in Long-duration Space Flight: Nutritional Aspects”. The intention is to produce a position document. The report should be prepared in a review style with recommendation.  
Actions::
  - final clarification of participants
  - should be proposed for approval

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

#### **5.1 General**

No general remarks.

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

For the planned 7 sessions 84 papers including student papers were received.  
No Life Sciences plenary session is foreseen for the Fukuoka meeting.  
It was discussed, that future proposals for plenaries should be more PR related.

##### **5.2.1 Status for the 15<sup>th</sup> Human in Space Symposium, Graz, 22 – 26 May, 2005**

G.Horneck gave a status of the preparations for the 15<sup>th</sup> Humans in Space Symposium:

- May 22-26, 2005 in Graz
- Main organizer: Prof. H. Hinghofer-Szalkay, University of Graz
- IAA representatives: I. Kozlovskaya, G. Horneck, R. White
- Theme: **Benefits of human presence in space**
- Topics: \* Living and working on the International Space Station

- \* Future of human spaceflight: Exploratory missions
- \* Access to space for the general public
- Cosponsorship: COSPAR, NASA, ESA, Austrian Ministry bm:bwk, Styrian government, City of Graz
- Structure: Opening Ceremony, IAA address  
5 Keynote Lectures, 4 Plenaries, 3 parallel sessions
- After extension of the deadline 220 abstracts have been received.

The group congratulated H. Hinghofer-Szalkay and G.Horneck for their excellent preparation so far. R.White mentioned, that \$ 35 of the registration fee will be used for Acta and 10% will go to IAA.

A call for proposals to host the 16<sup>th</sup> Humans in Space Symposium will be released in Graz as well as on the Web and through the Academy.

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

The symposium will be structured according to the study groups. Main organizers of the Symposium will be identified during this week's meetings.

Proposed Plenary Session: Life on Mars? – Lessons from Spain

Organizers: John Rummel & Gerda Horneck

- Carol Stoker; NASA AMES: The Marte Project
- Ricardo Amils; U of Madrid: Talented Microbes in Rio Tinto
- Michael Meyer; NASA HQ: Mars Exploration's Next Decade

### **5.3.3 Programme proposal for the 58<sup>th</sup> IAC in New Delhi, India**

The date has not been fixed. G. Horneck reminded the leaders of the study groups to make proposals for symposiums and sessions by the end of 2005.

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

The next meeting of Commission II will take place in the week of 16 to 21 October 2005 in Fukuoka, Japan. Draft agenda will be send to all Commission II members in advance to the meeting.

## **7 Any other business**

No topic mentioned

K. Kreuzberg

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#### **List of participants**

	<b>Name</b>	<b>Christian name</b>	<b>Affiliation</b>	<b>E-Mail address</b>
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### Agenda

1. Welcome/ Introduction
2. Review of minutes from last Commission II meeting in Vancouver
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 56<sup>th</sup> IAC Fukuoka
  - 5.3. Status for the 15th Human in Space Symposium, Graz, 22 – 26 May, 2005
  - 5.4. Status for the 57<sup>th</sup> IAC 2006 in Valencia, Spain
  - 5.5. Programme proposal for the 58<sup>th</sup> IAC in New Delhi, India
6. Next meeting and work between meetings
7. Any other business