

IAA COMMISSION II

Life Sciences Coordination Meeting

March 21, 2006 08 :15 – 10 :50

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

Summary minutes

1. When welcoming the participants **G. Horneck** briefly reported on the activities happened since the last meeting in Fukuoda 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 Fukuoda have been handed to participants. The final version of these minutes have been send to all members of Commission II and are also available on the IAA website (<http://www.ianet.org/commissions/>).
3. **Report by the Chair and from the Board of Trustees**
R. White informed participants on the discussions ongoing in the Board of Trustees. In his remarks he reported on the idea to develop a set of actions:
 - Regarding the IAA budget there is a small crisis in funding, corrective measures necessary (J. Zimmermann renewing the partnership of IAA/IAF; IAF to pick up the shortfall).
 - Membership, how to involve new members
 - General conditions for the membership (standing committees of the board are dealing with the question)
 - Actions to be assigned to the commission
 - Good commission attendance (to the scientific board and board of trustees)
 - Membership in Commission II (open to all IAA members interested)
 - General News: Website access management
 -**R. Gerzer** complemented by reporting on his new responsibilities for “ transaction notes”, which allow a rapid publication within 3 months. Furthermore Mr. Gerzer stressed the following points:
 - Implementation of an online editorial process, Mr. Gerzer can take care of Life Sciences papers in the regular process (specific agreement);
 - Acta Astronautica should contain reviews on specific topics, style should attract a wider readership;

- Nomination of associate editors should be improved, each commission should nominate associate editor (proposal);
- Special issue of Acta Astronautica ready compiled, within 6 months all papers to Elsevier publisher.

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R. White continued his report by explaining that the Commission should be asked to include in the regular calendar of special meetings “human in space” (every 2 years). In the membership campaign to the section should gender equity, geographical balance, and the current age average been taken under consideration. The membership list has been distributed to the participants of the meeting but is also available for every academy member on the website.

4. Study Group proposals/activities

4.1 Study Groups

Current Studies Status: The commission 2 has for the time 7 study groups to be dealt with: 3 in final phase, 2 new comers, 2 late starters

SG 2.1. Mathematical Modeling & Physiological Simulation : R. White informed that a draft report on the **Digital Astronaut/Cosmonaut** will be soon circulated. A status report has been made available to the participants. The final report will be available in summer 2006 for review by Commission II. After that, publication is foreseen in Acta Astronautica with co-sponsorship.

SG 2.2: The study group on “**Artificial Gravity as a Tool in Biology & Medicine**” was not represented. A third report from the meeting in Fukuoda has been made available. Furthermore there have been attempts made to finalize the report. **AI: to send a reminder**

SG 2.3: „**Biosystems for future extraterrestrial habitats and in terrestrial applications**“. Prof. **Gerzer** informed that **Ms Rabbow** is now driving the work. A new outline has been elaborated called “**future human outpost in space**” including the topics of human factors, life support, architecture etc.. This leads to a formal modification of the title: “**Requirements for future human outposts in space**”. The Scientific programme board needs to be informed on this. The study will be finalized in 2007.

SG 2.4: „**Psychology and Culture in Long Duration Space Missions**“. A status report has been delivered. **N. Kanas** informed that the group has now 4 subgroups. The final report will be available for the IAC meeting in Valencia 2006 for review by Commission II. **M. Kanas** aims to have a review paper in Acta Astronautica..

¿**SG 2.5.** „**Astrobiological Studies of Solar Systems**“. J. Rummel reported that study will concentrate on an review of the aerea of strobiology and on the strategy for the future. The final draft is still expected for March 2006, finalization to take place during 2006 and the final report ready by end of 2006.

¿**SG 2.6** „**Medical and psychological issues for passengers of commercial spaceflight**“. The proposal has been approved by the scientific programme committee. **R. Gerzer** reported that a first meeting took place during the last ASMA congress. A second meeting is envisaged to take place during the IAC in Valencia 2006.

SG 2.7 „Integrative Physiology in Long-duration Space Flight: Nutritional Aspects“. The proposal has been approved by the scientific programme committee. **Dr. Heer** informed that a first meeting will take place during the IAC in Valencia 2006. No report yet available.

4.2 Future directions/topics: The chair recommended first to finalize the ongoing studies before starting with additional new proposals.

5. Programme preparation activities

5.1 General

No general remarks.

5.2.1 Status for 57th IAC Valencia 2006

Dr. Horneck reported to have access to all abstracts delivered. Lessons learned for the future: **Broader thematic fields necessary to cover the full site of life sciences.** Most seminars are fine, only the session on space tourism remains open (only 2 papers, recommended to be forwarded to A34).

5.2.2 15th Human in Space Symposium, Beijing, 2007

The proposal by the Chinese colleagues has been discussed during the last meeting in Fukuoda; guidelines have been provided to Prof Zhuang and items missing identified. Additional discussion took place on a possible public event with larger auditorium and on the offer of a technical tour.

The current proposal has been approved by commission II and will be recommended to the scientific committee for final acceptance. **G. Horneck** will inform **Prof. Zhang** asap on the decision taken by the scientific committee.

5.3 Status for the preparation of 58th IAC 2007 in Hyderabad, India

The general programme preparation and organisation seem to be in a good shape. The scientific programme proposal needs be completed. The local Indian organizers seem to be very engaged.

5.4 Status of the programme proposal for the 59th IAC in Glasgow, Scotland

~~5.5~~The topic has been not treated for lack of time.

5.5 Preparation of 60th IAC

The topic has been not treated for lack of time.

6 Next meeting and work between meetings

The next meeting of IAA Commission II will take place in autumn 2006 in Valencia.

A draft agenda will be send to all Commission II members in advance to the meeting.

7 Any other business

No topic addressed

K. Kreuzberg

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List of participants

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Annex II

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Draft Agenda

1. Welcome/ Introduction
2. Review of minutes from last Commission II meeting in Fukuoka
3. Reports by the Chair: Scientific Activities, Board of Trustees, Membership of Commission II, general news from IAA
4. Study Group proposals/activities
 - 4.1 General overview
 - 4.2 Status/Progress report from Study Groups chairs
 - 4.3 Discussion on new proposals
5. Programme preparation activities
 - 5.1 General
 - 5.2 Status for 57th IAC in Valencia
 - 5.3 Status for the 16th Human in Space Symposium, Beijing, 22 – 25 May, 2007
 - 5.4 Status for the 58th IAC 2007 in New Dehli, India
 - 5.5 Programme proposal for the 59th IAC
6. Next meeting and work between meetings
7. Any other business