

# IAA Commission 1 'Space Physical Sciences' Meeting Paris, 22 March 2005, 08:00 – 09:30

## **Minutes of meeting**

### **Meeting Attendance:**

Len Culhane, Gerhard Haerendel, Tom Krimigis, Claudio Maccone, Susan McKenna-Lawlor, Rafael Rodrigo, Christian Sallaberger, Margaret Ann Shea, Peter Wenzel (C1 chair), Lev Zelenyi, Janusz Zielinski.

## **Agenda**

1. Welcome
2. Minutes from Vancouver meeting
3. Activities since last meeting
4. Study Group activities and new proposals
5. IAA and COSPAR
6. 56th IAC Fukuoka, status
7. 57th IAC Valencia 2006
8. Membership matters
9. Next meetings
10. Any other business

### **1. Welcome**

Peter Wenzel warmly welcomed the attendees at this early hour of the day. The timing of this meeting and its location were due the overcrowded schedule with overlapping IAA and COSPAR meetings during the day.

### **2. Minutes from Vancouver meeting**

These were approved.

### **3. Activities since last meeting**

Three Commission meetings took place in 2004: in March in Paris, in July during the COSPAR Scientific Assembly and in October in Vancouver in connection with the IAC. The minutes of all meetings are posted on the Commission's homepage on the IAA web site. The Chair was involved in various activities related to the preparations of the Fukuoka programme.

### **4. Study Group activities and new proposals**

Currently the only Study Group under the C1 auspices is the SETI Permanent Study Group (S1.3). Details can be found on the C1 homepage [www.iaa.net.org/commissions/restructuring.html](http://www.iaa.net.org/commissions/restructuring.html) which has a link to the SETI web site [www.setileague.org/iaaseti/index.html](http://www.setileague.org/iaaseti/index.html).

Claudio Maccone, one of the Co-Chairs of the Study Group, summarized the current activities and plans of the SETI consortium; his presence contributed to an interesting discussion.

No new proposals for study groups were put forward at this meeting. Wenzel recalled the proposals for potential new study groups discussed at the C1 meeting in October. There was no update on 'Science enabled by space telescopes at L2 and the requirements for human construction and servicing. Bob Farquhar had indicated that he would be interested in initiating such a study in the fall of this year.

Susan McKenna-Lawlor reported on her ongoing work related to the particle radiation environment near Mars which is done in close cooperation with university groups in several other countries. She outlined her ideas for an IAA Study Group proposal on 'Particle Radiation Hazards & Risk Mitigation for Humans at Mars'. Whilst the attendees recognized the relevance of the topic in relation to the Exploration initiatives, it was noted that stock of relevant existing material (e.g. a just completed NASA study, a potential ESA database) should be taken before formulating an IAA Study Group proposal.

## **5. IAA and COSPAR**

Wenzel asked the question about potential areas where the IAA could cooperate with COSPAR. The inclusion of IAA experts in COSPAR technical panels or the IAA support of COSPAR capacity-building workshops were given as potential examples. Janusz Zielinski suggested organisation of some joint meetings sponsored by COSPAR Commissions and IAA. Gerhard Haerendel remarked that the roles of COSPAR representing the world-wide space science community and that of the IAA as a proactive international academy were quite different.

## **6. Status of C1 input to 56<sup>th</sup> IAC in Fukuoka**

Claudio Maccone confirmed that about 10 abstracts have been submitted for each of the 2 SETI Sessions on Technical and on Interdisciplinary Aspects. Wenzel had, in coordination with ESA and JPL project staff, submitted a proposal for public Highlight Lecture 'Cassini-Huygens at Saturn and Titan – Exploration of a New Frontier'. (Subsequent to the meeting, we learnt that a Plenary Event, but not this Lecture on the same topic, has been accepted for the Fukuoka programme).

## **7. 57th IAC in Valencia 2006**

Tom Krimigis reported that a session on 'Science enabled by nuclear power in space' which had been well attended at Vancouver, had disappeared from the Fukuoka program. He suggested including the topic again for Valencia. (A proposal co-sponsored by C1 and C3 was subsequently formulated and submitted to the IPC on the next day).

Lev Zelenyi suggested a session on 'Space weather effects on technology'. Maccone noted that a proposal for a SETI symposium had been submitted.

The call for Plenary Events and Highlight Lectures is expected to be issued in the October/November timeframe. The theme of the Valencia IAC will be 'Getting Space closer to People'.

## **8. Membership matters**

Wenzel reminded the participants of the current C1 membership composition ending later this year. Considerations of the membership for the next two years will start in the next few weeks; the newly composed Commission will become effective after the Fukuoka IAC in October. The current Vice-Chair (Huntress) will automatically take the C1 Chair. Suggestions for potential new members should be sent to the current Chair/Vice Chair before end of April.

Wenzel reminded the attendees of the ongoing action to submit proposals for new IAA members, especially of young scientists. The deadline for 2006 candidates is at the end of the year. Nominations by an academician need to be supported by two referees.

## **9. Next meetings**

The next Commission 1 meetings are planned as follows:

- Sunday 16 Oct 2005 10:00 Fukuoka
- March 2006 Paris
- July 2006 COSPAR SA Beijing (TBC)

Other near-term IAA meetings of interest to the Commission include

- IAA Asia-Pacific Regional Workshop on 'Advances in Planetary Science' Bangalore, 26-29 June 2005
- IAA International Conference on 'Low-Cost Planetary Missions' Kyoto, 11-13 October 2005.

## **10. Any other business**

Wenzel thanked all participants for their participation and acknowledged the support of the COSPAR secretariat to the preparations of this meeting.