

# I.A.A. Commission III

## P A R I S M E E T I N G M I N U T E

meeting date: 20 March 2007 <i>date de la réunion</i>	ref./réf.	page/page 1 / 4
meeting place <i>lieu de la réunion</i>	Aéroclub de France	chairman Horst RAUCK <i>président</i>
minute's date: 23 <sup>rd</sup> March 07 <i>dates de compte rendu de réunion</i>	participants Horst RAUCK <i>participants</i> Tetsuo YASAKA André VAN GAVER Peter SWAN Junjiro ONADA David FEARN William SIEGFRIED Christophe BONNAL John MANKINS Joe HOWELL Nobuyaki KAYA Pavel TRIVAILO	
subject/ <i>objet</i>	Progress meeting, according to the proposed agenda.	copy/ <i>copie</i>

### Agenda:

- Commission III composition and renewal.
- Status reports of study group leaders. It recalled that a status report should be sent before the meeting via Email to the commission members, to ease the meeting agenda and prepare the SAC report foreseen for the next day.
- Nuclear Propulsion study status and editorial process.
- "Strategies and concepts for future space exploration and development, the ISS and beyond" Study status and approval process by the Scientific Advisory Committee.
- Questions related to the Hyderabad congress.
- Any Other Business.

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### ▪ **Commission III composition and renewal.**

André van Gaver will be replaced by Giuseppe REIBALDI as Commission III secretary after the Paris March 07 meetings. The transition between Horst RAUCK and Tetsuo YASAKA will be during the Hyderabad congress. Commission members M. MAROV and R. HOLDAWAY will be replaced by newcomers.

### ▪ **Status reports of study group leaders**

#### ▪ **Advanced Propulsion. SG 3.1**

Mr Calabro will organise the study group during the present Paris IAA meeting.

#### ▪ **Nuclear Propulsion. SG 3.2**

The study on “Nuclear Power and Propulsion” led by Claudio BRUNO and its corresponding report have been accepted by the Board of Trustees, but the printing process has not been decided.

#### ▪ **Development of infrastructure of international human space exploration. SG 3.4**

William Siegfried informs that the draft report is 70 % done, but because of key member being held up in a hospital, it was not available during this Paris meeting. Final report is ready by March 08.

#### ▪ **Dealing with Earth-threatening Asteroids and Comets. SG 3.5**

Ivan Bekey could not attend the meeting and will not join IAA Commission III at Hyderabad. The final draft of the study report, originally foreseen for March 2007 is delayed by six months

#### ▪ **Stepping Stones to the Future. SG 3.6**

The study report named “Strategies and Concepts for Future Space Exploration and Development “ –The ISS and Beyond- is available since July 2006. It has to be reviewed by a peer group. Candidates for reviewing are welcomed.

The study of “Sustainable Exploration and Development of Space” is going on. A preliminary draft will be ready next year and the study will be finished the year after.

#### ▪ **Space Elevators. SG3.8**

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Outline of study report has been updated. Definition of roadmap to space elevator is on-going. The report will be ready by Glasgow Congress. Problem would be funding for printing.

### ▪ New Studies.

The study "Private human access to space" is proposed by Christophe BONNAL (see annex paper) in collaboration with commission V. Outline and membership will be finalized during the Hyderabad congress. A workshop is foreseen in 08. The study duration is estimated at three years. The study results of commission II (Medical Survey for Space Flights) will be taken into account. Commission approves this new study.

A new study on "Technologies to enable near term Interstellar Precursor Mission" is proposed by David FEARN, helped by Gregory MATLOFF. The three technology candidates are Electrical/nuclear, Solar Sailing, Hybrid of Electric/Solar, assuming the use of existing launchers for an exploration domain of 50 Astronomical units. The flight is foreseen within 30 years. The study duration is two years. The study proposal is approved by the commission. A study form will be sent to the commission secretary by Email.

Another topic is proposed by John MANKINS: "Energy from space" (out of moon, mars etc.) The study will be defined more precisely shortly.

### ▪ Hyderabad

4 symposia organized with many quality papers proposed. However delete one session, D4.2, and Nuclear propulsion and power (3.4/C3.4 and C3.5/C4.7) likely to be reorganized. A room has been reserved for a potential commission III meeting on Friday from 9h to 13h.

### ▪ Bylaws

The commission was informed that the academy was accepting, at this point in time, changes to the bylaws. In the discussion, it was proposed that one should add "Space Resources"(in situ utilisation) to the bylaws of the commission III .

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### 1. Report from SAC meeting

Reports on ongoing studies were given to the SAC. The SAC Chair mentioned some disappointment on the delays of some of the ongoing studies, and reminded that a study, in general should not be longer than 3 years.

The new study "Private human access to space", jointly proposed by commissions III and V, was presented and described in the official format which was handed over to the vice-chair. It was then approved by the SAC and it was also noted that there will be a workshop in 2008.

The new study on "Technologies to enable near term Interstellar Precursor Mission", proposed by David FEARN, with the official format missing, was reported. A final decision from SAC is expected after official form delivery. In case of an approval of the study by SAC, commission I should be involved.

A potential new study "Energy from space" proposed by John MANKINS, was also presented verbally to the SAC, which remarked that this subject, very classical, will be considered only if new ideas will be described in the study proposal.

Commission III asked for the inclusion of "Space Resources" in their Bylaws. The SAC accepted in principle and the Chair asked a formal submission within two weeks.

Commission III informed the SAC about the secretary change from André van Gaver to Giuseppe Reibaldi, during this Paris meeting.

The new vice Chair for the period 2007/2009, from Hyderabad onwards, will be John Mankins. This was approved by the SAC.

It was also reported that the commission composition for the period 2007/2009 should be revised in the light of the fact that some of the present members did not participate in the commission work. The proposal for the new composition of the commission will be given in due time before Hyderabad.

# Commission III Meeting - PARIS - 20 March 07

## Participants List

1 <sup>st</sup> Name	Last Name	Email Address
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