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IAA Commission III meeting
Glasgow, September 28th, 2008
Christophe Bonnal

Progress report on IAA Study Group 3.9 “Private Human Access to Space”

Proposer(s): H. Rauck – G. Brachet **Chair:** Ch. Bonnal
Primary IAA Commission Preference: Commission 3
Secondary IAA Commission Interests: Commission 5

Overall Goal:

Identify and quantify the key topics associated to Manned Private Access to Space for both Orbital and Sub-orbital missions.

Key words:

- Technical aspects
- Legal and regulatory aspects, safety aspects
- Financial aspects, market analyses, associated business plans
- Motivations of potential customers
- Physiological and Psychological requirements, ergonomic constraints

Expected outcome of the study:

IAA Position Paper giving the keys to the topic and potentially including recommendations. Subdivision of the study into key chapters, with one “book captain” per chapter ; 7 or 8 members per chapter covering a wide range of origins (countries, agencies, industrials, searchers, operators...)

Time line:

3 years following the initial proposal (March 2007)

Revised timeline:

- | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------|
| IAA symposium | ⇒ | 28-30 May 2008 |
| Publication of the full CD with all the papers (2 months delay due to holidays and editorial problems) | ⇒ | End of September 2008 |
| Report during IAC Glasgow | ⇒ | October 2008 |
| Publication in Acta Astronautica of the 15-20 best papers Not yet started, due to lack of understanding of the editing constraints (Q sent to IAA SG, but no answer so far) | | |
| Tentative date was March 2009, | ⇒ | Revised to July 2009 |
| Drafting of the Position Paper | ⇒ | Daejeon, October 2009 |
| Re-work within the SG3.9 working group | ⇒ | IPC, Paris March 2010 |
| Draft release for Peer Review within IAA | ⇒ | IPC, Paris March 2010 |
| Final publication | ⇒ | IAC, October 2010. |

1st IAA symposium on Private Human Access to Space

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Arcachon, 28-30 May 2008

Short summary:

68 presentations organized into 16 sessions + 2 round tables
139 delegates from 16 countries
15 IAA members but only 1 non-chairman or non presenter
Good local organization by Avantage-Aquitaine
Nice place, nice banquet, very positive feedback from participants
Proceedings CD finally issued, currently under mailing to participants

Co-sponsorship from AIAA, ACE, 3AF, IISL, Eucass, Astech, ARA, IAF and RAES



Content in the frame of the Study-group:

⇒ Uneven depending on topics:

- very rich symposium on legal, certification & insurance aspects -
good session on technical aspects, medics, ground - fair on
technological aspects - poor on
reliability, safety and risk

⇒ As a consequence, the resulting study is not well balanced and requires more effort on some topics

Program Committee members = Study-group book captains:

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Dr. Melchor J. ANTUÑANO, Director, Civil Aerospace Medical Institute, FAA

Max CALABRO The Inner Arch, former head of propulsion department
in Astrium Space Transportation, IAA

Pr. Mireille COUSTON University of Lyon 3, Head of Space Laws Center

Pr. Richard CROWTHER Rutherford Appleton Laboratory

Philippe DRONEAU, Deputy Director, Toulouse Cité de l'Espace

Patrick EYMAR, N4E, former head of future projects at Astrium ST

Prof. Dr. Med. Rupert GERZER, Head, Institute of Aerospace Medicine
German Aerospace Center DLR

Walter PEETERS, Dean of ISU, International Space University

Manola ROMERO, ONERA, IAA

Dave SALT, Vega Group, European Space Agency

Garrett SMITH, Airbus, Chairman of the 3AF Space Tourism Commission

Derek WEBBER, Spaceport Associates

Francis WINISDOERFER, Airbus, Professor at Strate College

Synthesis required to all Program Committee members following their sessions

↳ It is proposed to hold the

2nd Symposium on Private Human Access to Space in July 2010

→ Location and local organizer to be discussed,
but same as 2008 seems a good idea.