



# Report to the SAC

## 22 March 2011

### Commission VI

Peter Swan - Chair  
Geoffrey Langedoc Vice - Chair  
Olga Bannova - Secretary

#### 1. Commission VI convened on the Academy Day with the following agenda:

- Welcome and introduction of newcomers
- Ideas for future Space and Society Conferences
- Brief summary of Prague IAC Sessions
- Overview of Cape Town IAC sessions
- Proposals for Naples IAC
- Overview of IAA approaches to space and society issues, especially Commission VI/IAF cooperation
  - Call for volunteers to be Comm. VI representative at the IAF Space Societies Committee
- Study Groups
  - Study Group – History
  - Reports from Current Study Groups
  - New Study Group Ideas
- Stand Alone conferences sponsored by Commission VI
  - Support to the 3rd International Conference on Advanced Space Technologies for Humankind Prosperity (Space Technologies: present and future) April 20-22, 2011, Dnepropetrovsk, Ukraine
- AOB
  - There are four permanent committees with one [and a half] being in Commission VI: SETI, Small Sats, History, Scientific-Legal. The question is how shall we interface with them?
  - The Permanent Committee on History has taken on the challenge of proposing relevant dates for future celebrations and recognitions (any ideas to stimulate thought ... who, when, what happened?). Discussion about participation in the ACHA (Advisory Committee on History Activities) Remember, you were there!



- The IAA will be an official participant with UNCOUOS in the near future (how shall we interface and provide inputs?)
  - Support: Space for Africa and Africa in Space initiative from Com IV (how shall we participate in Cape Town and afterwards?)
2. Welcome: The chair and co-chair were in attendance along with many of the voting members and friends of Commission VI. The following attended the Commission VI meeting: C. Swan, P. Swan, G. Languedoc, D. Vakoch, R. Malina, K Doetsch, P. Jung, Y.J.A. Chung, Bernard Foing, Efim Malitkov, Robert Dickman, Richard Clar, Nona Cheeks, Christophe Rothmund, Keiken Ninomiya, Paivi Jukola, Vince Boles, and YJA Chong.
3. Ideas for future Space and Society Conferences: The discussion was lively and ideas abounded. Here are some of the potential topics for a stand-alone conference sponsored (or co-) by Commission VI:
- a. Archeology from space
  - b. Northern Lands, their people and assistance from space
  - c. Natural disaster support [the people side]
  - d. Natives near sea level
- Two criteria were discussed to help understand the complexity of the support needed to identify and initiate a stand-alone conference supporting topics of our choice and sponsored by Commission VI:
- Need sponsoring organization with manpower to support
  - Need crisp (definable and scope-able) topic
4. Brief summary of Prague IAC Sessions: During the Prague IAC, Commission VI participated in the following activities and successfully stimulated much discussion relative to its interests in Space and Society. Within the 20<sup>th</sup> Symposium on Space Activity and Society, Commission VI organized three main sessions and had many participants. Commission VI also contributed to the D4.2 session on Space Elevators and the D3.4 Joint session on Space Technologies and Program Management practices. In addition, the SETI group received support from Commission VI.
- The History Group held three sessions inside the 43<sup>rd</sup> History of Astronautics Symposium. These sessions related to Memoirs and Organizational Histories; Scientific and Technical Reviews; and History of local Contributions to Astronautics.
5. Overview of Cape Town IAC sessions: During the Cape Town IAC, Commission VI will participate in the following activities.
- Within the 21<sup>st</sup> Symposium on Space Activity and Society, Commission VI organized three main sessions:



- E5.1. Future and current space missions: including and expanding all aspects of human life aboard and in other worlds – more than ten abstracts submitted
- E5.2. Tech Transfer #1- sufficient support from abstracts
- E5.3. Tech Transfer #2- many abstracts

The History Group will hold four sessions inside 45<sup>th</sup> History of Astronautics Symposium. These sessions relate to IAA 50<sup>th</sup> Anniversary, Memoirs and Organizational Histories, Scientific and Technical History, and History of African contributions to astronautics. Commission VI also is contributing to the D4.3 session on Space Elevators and the D3.4 Joint session on Space Technologies and Program Management practices. As the commission has done for the last few years, we are supporting the Commission I activities on SETI, to include supporting a session. The Multilingual Astronautical Terminology symposium is also being supported.

6. Proposals for Naples IAC: During the Naples IAC, Commission VI will participate in the following activities, similar to the past three symposia:

Within the 22<sup>nd</sup> Symposium on Space Activity and Society, Commission VI will organize five main sessions: one on Space Architecture, one on Art, two on Tech Transfer and one on Space support measurement to Natural Disasters [case study approach]. The History Group will hold four sessions inside the 45<sup>th</sup> History of Astronautics Symposium. Commission VI also will be contributing to the session on Space Elevators, the Joint session on Space Technologies and Program Management practices, as well as the special topic of space and society (continued from 2010) in E1. Support to the multilingual dictionary will continue also.

7. Commission VI/IAF cooperation: Commission VI and the new Space Societies Committee are working together to ensure that space involvement of the public increases over the years.

In addition, there will be a letter to the commission members within a month asking the question: Who is participating in which IAF committee (s) and would they like to be the representative from Commission VI to that committee?



## 8. Study Groups:

- 6.3 Interstellar Message Construction: in the process of closing
- 6.7 50<sup>th</sup> Anniversary of the Space Era in 2007: Closed out
- 6.8 Space Expectations: submitted report to SAC (approved) and now it goes to the Academy for final inclusion on the website and determination for publication or keep it only electronically.
- 6.9 The Architecture of Space: Tools for Development in the 21<sup>st</sup> Century: In the process of having final report approved after re-draft.
- 6.10 The 50<sup>th</sup> Anniversary of the Space Era Edition of the IAA Multilingual Dictionary: 6 books published, closing.
- 6.11 Competency Based Space Systems Engineering Education: to be closed unless some action appears.
- 6.12 Lunar Laser Reflectors for First Moon-Light timing and Navigation Applications: No action visible, will pursue closure.
- 6.13 Space Terminology for Africa. progressing
- 6.14 Communications with Extraterrestrial Intelligence: being initiated.

### New Study Groups

As several of the study groups are due to terminate in 2011, the Commission leadership is making suggestions for topics to its members and interested others. There are two new study groups being proposed. The forms need to be filled out and circulated to the commission members. One will be on the history of the IGY and another on ideas to provide more insight for the public on the expenditures of space [and benefits].

## 9. AOB:

- Designate four permanent committees within IAA, that will be responsible for each? The History Committee will work within the infrastructure of Commission VI for things such as discussion location, study sponsorship and general support. The Seti permanent committee will work within Commission I while the Small Sats and Scientific-Legal permanent committees will work for other commissions.
- The Permanent Committee on History has taken on the responsibility of identifying the historic events which have occurred and should be recognized. This will be discussed during the History committee meeting and a determination will be made as to "How to" accomplish the information flow – web based, Academy web structure, etc.



- Commission VI will review proposals with respect to the UNCOPUOS and determine if they have any inputs for the summer meeting. [action for PS to distribute topics to Commission members]
  
- Space for Africa and Africa in Space activities within Commission VI focus around the history session named for that activity. In addition, all other actors from our commission are including as many African authors as possible in the studies, the sessions and symposia.

10. Major Ideas:

- a. Richard Clar has proposed a session for artists and their impact on humans for the Naples IAC. It was discussed and suggested that some type of funding be arranged so that the “starving artists” could be able to afford the IAC fees and travel expenses. This has been a major impediment to the attendance of artists to space symposia. The suggestion is that session chairs work with the major agencies and initiate the idea of each sponsoring ONE artist to the IAC representing their cultural program. This would enable the session to have 5 or 6 true artists representing major segments of the space industry. The concept is that this could be an outgrowth from the Young Professional approach, called “Sponsor an Artist.”
- b. Karl Doetsch suggested that there should be an evaluation and recognition of space activities’ support at natural disasters. In a case study approach, the space assets interfacing with disaster mitigation teams could be assessed as to their successes and shortcomings. This approach could evaluate events such as: Chile, Japan, Christ Church, Haiti and others by looking at the support provided from space and seeing if the activities could be optimized. One thought is to evaluate across the phases of disasters: Warnings, during, immediate response, long term support and recovery. The approach is to organize a session for Naples and a major Plenary supporting the major players and, perhaps, even co-hosted by the local Italian Space Agency who works extensively in this field.