



**International  
Academy of  
Astronautics**

# **IAA Commission 5 Space Policies Law & Economics**

## **Scientific Activities Committee Report**

**September 2023 Fall meeting**



## **Attendance (online meeting)**

Bonnal Christophe, Corinne Jorgenson,  
D Gowrisankar, Danielle Wood, Didier Alary,  
Fabrice Dennemont, Guoyu Wang, Fu Rao,  
Jean-Michel Contant, Ken Davidian, Les Tennen,  
Marius-loan Piso, Martha Mejia-Kaiser,  
Natalia Archinard, Piero Messina, Erick Lansard,  
Scott Pace



- **Current Studies**

- **Study Group 5.16 - Chair: *Prof. Liu Jizhong***  
**Study on International Policy and Legal Regimes for Space Natural Resources Exploitation and Utilization (SREU)**

⇒ after the last meeting in march, the report has been reviewed, including the comments received, and updated with current situation of national legal frameworks. No more review is needed. Next steps are the commission 5 green light, then the SAC approval and lastly the board approval. Les Tennen: author list to be updated, one person has passed away. Discussion about overlaps with on going study 3.26, but 3.26 is not addressing the legal issues. Maybe a good idea would be to produce a synthesis of 5.16 to be introduced in 3.26.

- **Study Group 5.17 – Chair: *Bonnal/McKnight***  
**Space Debris Situation Report**

⇒ no progress. Next meeting on Saturday the 30<sup>th</sup> (at AIC Baku), status will be made, and possibly the study will be put on hold.



- **Completed / Current Studies (*continued*)**

- **Study Group 5.18 - *Chairs or representatives: Denis / Jorgenson***  
**Space and disasters management: new systems, new usages and opportunities for international cooperation**

⇒ Call for participation was issued 4Q2022 with some good response, now with a core group of 11 participants interested. Gil Denis will not be available before march 2024. A new leading team is needed, to be selected within the list of the eleven. To be done in November/December.

- **Study Group 5.19 : – *Chair: Danielle Wood***

- **Opportunities for National Governments to Foster Space Traffic Management using the Space Sustainability Rating**

⇒ see detailed progress report provided by Danielle ; good progress. Draft study outline available. Review international progress toward STM national policies partially done, next step in progress is the identification of case studies countries willing to embed the SSR into their national framework, draft report should be available in summer 2024.



- **Completed / Current Studies (*continued*)**

- **Study Group 5.20 : – *Chairs: Spencer / Sorge***  
**Establishing “Rules of the Road” for Satellite Collision  
Avoidance Maneuver Planning”**

⇒ see detailed progress report provided by Dave; 21 members , TOC done, working groups and writing teams formed. First paper presentation @IAASS may 2023.

- **Study Group 5.21 : – *Chairs: Jah / Jorgenson***  
**Investigate a Transdisciplinary Approach to Protect the Dark  
and Quiet Sky from Satellite Constellation Interference**

⇒ Progress report available. Moriba Jah step down, working outline available, 4 major sections, 13 contributors, TOC still to be approved, first draft expected in spring next year. Comment from Marius: tech subcommittee discontinue this topic during the June meeting, some countries were not happy to see the dark sky item at that level, IAA study group may have a card to play.



- **New Studies Proposals**

- **Studies on STM – *LJ Smith*** Didier will Contact Lesley-Jane to check with her, refine the scope and restart or delete the proposal,
- **Ecotax to fund space debris removal – *D Alary***
  - ⇒ Since last sept, the topic has been discussed with agencies, stake holders and possible participants. Especially during the last IAC in Paris. In synthesis, this topic is considered as an utopia in the present context. The best way to setup such tax would be during the registration process, exactly as when you registering a car and pay a fee that could support bonus and malus regarding how clean it is. Clearly, no single nation will take such decision, so it has to come from a group of nation. Ideally, Europe could be the place where such tax could be created, but this could be a second step of a common framework, and so far, no positive return has been captured. To be deleted as a new study proposal.



### **Current IAA Conferences**

#### **•General comment:**

Each conference should identify papers for Acta Astronautica

#### **•Spacecraft Mission Operations: SMOPS-2023, India Bangalore**

Very good conference, well attended, video of the opening is available ; tech report still pending

#### **•Symposium on the Peaceful Use of Space Technology – Health IPSPACE**

Program Committee Chair: Wang Tyani

18-20 November 2023, Beijing, China, program available

#### **•10<sup>th</sup> STM Conference (IAA STM Committee), 27-28 February, 2024, USA TX**

Austin

Program Committee Chair or representative: Moriba Jah has step down, Ruth Stilwell, Charlie McGillis have taken the lead. Deadline for the papers is last Friday, 40 abstracts received so far, submission deadline is extended to 30<sup>th</sup> sept. Discussions about another venue in the future : so far the Austin conference is running well and new other place is considered.



### **Current IAA Conferences (*continued*)**

- **4th IAA Conference on Space Situational Awareness, 08-10 May, 2024, USA  
FL Daytona beach**

Under preparation, a "save the date" and "Call for Papers" were sent.

- **12<sup>th</sup> IAA Conference on Space Systems as Critical Infrastructures, August  
2024, Romania**

Postponement is being discussed due to the local situation, decision will be taken in less than one month.





### **IAA Symposia at IAC 2023, Baku, Azerbaijan**

- **36<sup>th</sup> IAA symposium on space policy regulation and economics (E3)**  
Program Committee Chairs or representatives: B. Schmidt-Tedd / J. Masson  
98 abstracts received (138 in 2022), no further news
- **21<sup>st</sup> IAA Space Debris Symposium (A6)**  
Chairs : C. Bonnal / Mark Skinner (stepping in) / P. Omalý  
211 abstracts received (306 in 2022). 97 papers selected, 86 confirmed. 65 poster selected, 47 confirmed.
- **24<sup>th</sup> UN/IAA workshop on small satellite at the service of developing countries, (B4.1)** Chairs: S. Mostert / N. Ricard no further news
- **37<sup>th</sup> IAA/IISL scientific legal round table: "Space Launch from Celestial Bodies: Technology, Law and Policy"** (E7.6 – E3.5) Program Committee  
Chairs : J. Kawaguchi / M. Kemper Force no further news



### **Report from the IAA Permanent Committees**

- **IAA Permanent Committee on Space Debris**

Chair: C. Bonnal, Co-Chair: TBC, Secr: P. Omalý

Committee meeting to be held on the 30th of sept, 9am, first discussions about the Milano IAC event in 2024.

- **IAA Permanent Committee on Space Traffic Management**

Co-Chairs: D. Wood / C. Jorgenson

Moriba has stepped down from chair, but remains a member.

For information: IAF TC26 initiative on STM produced a first document presented at IAC Paris last year, still some chapters in progress. Publication will be done in the IAA/Acta with the first 9-10 reports before Xmas. A second volume latter on.

Same idea in the STM committee on the occasion of the 10<sup>th</sup> STM conference  
Discussion is needed between the 2 groups (Corinne, Christophe)