IAA Commission 5 Space Policies
Law & Economics

Scientific Activities Committee Report

September 2023 Fall 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-Ioan 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 ongoing 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 30th (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.
Commission 5 Report to SAC

• 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, stakeholders 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

• 10th 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 30th 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.

- 12th IAA Conference on Space Systems as Critical Infrastructures, August 2024, Romania
  Postponement is been discussed due to the local situation, decision will be taken in less than one month.
IAA Symposia at IAC 2023, Baku, Azerbaijan

• **36th 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

• **21st IAA Space Debris Symposium (A6)**
  Chairs: C. Bonnal / Mark Skinner (stepping in) / P. Omaly
  211 abstracts received (306 in 2022). 97 papers selected, 86 confirmed. 65 poster selected, 47 confirmed.

• **24th UN/IAA workshop on small satellite at the service of developing countries, (B4.1)**
  Chairs: S. Mostert / N. Ricard no further news

• **37th 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. Omaly
  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 10th STM conference. Discussion is needed between the 2 groups (Corinne, Christophe)