

Proposal for Forming an IAA Study Group

Title of Study: S5.14 - Reference Report on Space Debris

Proposer(s): Christophe Bonnal

(Must be member(s) of the Academy M or CM)

Primary IAA Commission Preference: 5

(From Commission 1 to Commission 6):

Commissions: 1 Space Physical Sciences, 2 Space Life Sciences, 3 Space Technology & Systems Development, 4 Space Systems Operations & Utilization, 5 Space Policy, Law & Economics, 6 Space and Society: Culture and Education

Secondary IAA Commission Interests: 1, 3, 4, 6

(From Commission 1 to Commission 6)

Members of Study Team

Chair(s): Bonnal

(Must be member(s) of the Academy, M or CM)

Secretary:

Other Members:

(Open to members and non- members of the Academy)

Klinkrad

Agapov

Schildknecht

Alby

Finkelman

Krisko

Matney

McKnight

Kibe

Schäfer

Martin

Mathieu

Masson-Zwaan

Prasad

Short Description of Scope of Study

Overall Goal:

(Expected scientific or practical benefit of the study group's efforts)

Reference status of the Space Debris problematics, acting as an update of the IAA Position Papers 1993 and Revision from 2001, taking into account the IAA Position Papers on Space Debris Mitigation (SG5.1) and on Space Debris Remediation (SG5.5). Available elements from on-going SG5.10 devoted to Policy, Legal and Economic Issues in Orbital Debris Removal will also be included.

Intermediate Goals:

Presentation at IAC 2014 in Toronto of the Final Draft Content through a Plenary Event or Highlight Lecture type of session.

Methodology:

(Email works, workshops, stand alone conferences, interim publications, etc.)

Work by e-mail to have a preliminary draft by March 2014.

Status during the March meeting of the IAA Space Debris Committee in Paris

Final Draft in Toronto reviewed within the March meeting of the IAA Space Debris Committee

Delivery to IAA for Peer Reviewing and final process

Effective publication expected before IAC 2015

Draft table of contents and chapter captains:

Introduction, recall of scope and past studies: Christophe Bonnal
Present status: Heiner Klinkrad
Measurements: Thomas Schildknecht & Vladimir Agapov
Space surveillance & collision: Fernand Alby & Dave Finkelman
Reentering space objects: Paula Krisko & Mark Matney
Future environment: Paula Krisko
Debris mitigation: Mark Matney & MYS Prasad
Remediation: Darren McKnight & Seishiro Kibe
Protection: Franck Schäfer & Martin Rudolph
Legal: Tanja Masson-Zwaan
References & Standards: Christophe Bonnal
International aspects: Charlotte Mathieu & MYS Prasad

Time Line:

(Cannot exceed three years)

Final Draft for Peer reviewing after 1 year

Effective publication: 2 year.

Final Product (Report, Publication, etc.):

IAA Reference Report on Space Debris

Dedicated publication ≈ 50 pages

Instructions and application form: see: "Scientific Activity" section at <http://iaaweb.org/content/view/256/393/>

Target Community:

Very wide: Space Agencies, Industrial companies, Academics, laboratories, students... any person or entity interested in an updated reference synthesis on the topic of Space Debris

Support Needed:

None

Potential Sponsors:

None

To be returned to the IAA Secretary General Paris

by fax: 33 1 47 23 82 16 or

by email: sgeneral@iaamail.org

Date: September 21st, 2013

(No Signature required if document authenticated).

Follow-up Section for IAA use only

Initial Phase
Application received:
Commission Approved:
SAC Approved:
Web Site Section opened:
Members Formally Appointed by IAA:

Final Phase
Peer Review by Commission Completed:
Recommended by the Commission:
Final Report Received:
SAC Approved:
BOT Accepted:
Publisher Selected:
Study Published: