42th COSPAR Scientific Assembly, Pasadena, USA, 14 – 22 July 2018

Report to IAA Space Debris Committee
March 27, 2018

T. Schildknecht, PEDAS Chair

COSPAR 2018 PEDAS Event

Space Debris – Providing the Scientific Foundation for Action

The PEDAS1 sessions on space debris will address advances in ground- and space-based observations and methods for their exploitation, in-situ measurement techniques, debris and meteoroid environment models, debris flux and collision risk for space missions, on-orbit collision assessment, re-entry risk assessments, debris mitigation and debris environment remediation techniques and their effectiveness with regard to long-term environment stability, national and international debris mitigation standards and guidelines, hypervelocity accelerator technologies, and on-orbit shielding concepts.
A dedicated session on debris-related issues of mega-constellations will be organized.
The target audience of the event is researchers, spacecraft and launch system manufacturers, operators of space systems, mission and system analysts, space policy makers and insurance underwriters. Four half-day sessions of 9 to 10 presentations each are planned, with 1 to 2 solicited papers per session. PEDAS1 space debris sessions typically have an audience of about 100. Papers can be submitted for publication in Advances in Space Research.

COSPAR 2018 PEDAS

PEDAS Officers

Thomas Schildknecht (CH, chair and MSO): 2014 to 2018
Seishiro Kibe (JP, vice-chair and DO): 2013 to 2017

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- 4 half-day sessions plus posters scheduled for PEDAS
- Sessions
  - Debris Detection, Tracking and Characterization (9 oral)
  - Debris Environment Modeling and Risk Analysis (9 oral)
  - Debris Orbit Dynamics, Cataloging (9 oral)
  - SSA, Debris Mitigation and Remediation (8 oral)
- Timeline
  - *Session:* *Wed, 18.7., Thu, 19.7.2018*
  - Business Session: Thu, 19.7.2018 18:30–20:30 (tentatively)