### 42th COSPAR Scientific Assembly, 14-22 July, 2018, Pasadena, California, USA

#### Report to IAA Space Debris Committee T. Schildknecht, PEDAS Chair

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



## Space Debris – Providing the Scientific Foundation for Action

- Debris Detection, Tracking and Characterization Chairs: Pat Seitzer, Thomas Schildknecht
- Debris Environment Modeling and Risk Analysis chairs: Carmen Pardini, Carsten Wiedemann
- Debris Orbit Dynamics, Cataloguing Chairs: Florent Deleflie, Srinivas Setty
- SSA, Debris Mitigation and Remediation Chairs: Jan Siminski



# Space Debris - Providing the Scientific Foundation for Action

- Statistics of PEDAS at COSPAR 2018:
  - 4 half-day sessions, plus 1 poster session
  - presentations: oral/posters ⇒ 35/6
  - withdrawals  $\Rightarrow$  7 (3 late)/2; no-shows  $\Rightarrow$  ?/?
  - Venue of COSPAR 2020: Sydney, Australia, 15 – 23 August 2020
- COSPAR 2020 announcement: see special issue of "Space Research Today" (tentatively in Aug. 2019)



- Discussion of scientific matters & coordination
  - joint session on SSA with PEDAS, and NEO community, and/or other dedicated PEDAS session for 2020?
- 2. Election/appointment of PEDAS officers
  - Carolin Früh (USA, chair and MSO): 2018 to 2022
  - Carmen Pardini (Italy, vice-chair and DO): 2018 to 2022

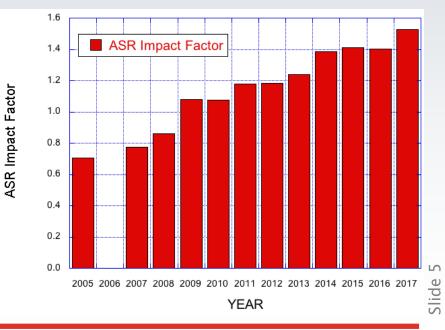
### 3. Proposals for COSPAR meetings

- PEDAS event proposal for COSPAR2016, Istanbul, Turkey: Space Debris - Scientific Foundation Enabling Long-Term Sustainability
  - 4 half-day sessions plus posters requested for PEDAS



4. Preparation and publication of ASR manuscripts

- ASR has become an Elsevier "open scientific journal", with no further event-related proceedings
- "Astrodynamics and Space Debris" (AD) is one of 9 themes
  - P. Willis (Editor-in-Chief),
  - T. Schildknecht (Assoc. Editor)
- manuscripts can be submitted at any time to "http://ees.elsevier.com/asr"
- manuscripts for ASR are peer reviewed





6. Outstanding paper award for young scientists

- nominee must be younger than 31, and first author
- contributed papers and posters are eligible
- submissions not presented at COSPAR are eligible
- closing date for nomination: 6 months before next COSPAR meeting
- PEDAS outstanding paper awards (2<sup>nd</sup> most papers of all COSPAR topics):

Jacco Geul (The Netherlands): *TLE uncertainty estimation using robust weighted differencing* (ASR 59/10)

Luc Sagnières (Canada): *Stochastic modeling of hypervelocity impacts in attitude propagation of space debris* (ASR 59/4)

Chenglin Wang (China): *Impulse calculation and characteristic analysis of space debris by pulsed laser ablation* (ASR 58/9)