



# PPOSS Planetary Protection Tutorial 101

September 29<sup>th</sup>, 2018

Congress Centrum Bremen, Room Focke Wulf,  
Findorffstraße 101, 28215 Bremen, Germany

## Agenda

### Saturday Sept. 29th, 2018

---

09:00-09:30	<b>Registration &amp; Coffee</b>
09:30-09:45	<b>Welcome Remarks</b> <i>(Christian Feichtinger, IAF Executive Director)</i>
09:45-10:00	<b>Presentation of the Training's Agenda, Speakers and Tools</b> <i>(Alissa Haddaji, COSPAR-PP Project Officer)</i>
10:00-10:15	<b>The Planetary Protection of Outer Solar System Bodies (PPOSS) Project</b> <i>(Alissa Haddaji, COSPAR-PP Project Officer)</i>
10:15-11:00	<b>Planetary Protection Basics</b> <b>[Definition, History, Requirements, Categorization]</b> <i>(Gerhard Kminek, ESA PP Officer)</i>
11:00-11:10	<b>Q&amp;A</b>
11:10-11:30	<b>Habitability of Icy Moons</b> <i>(Athena Coustenis, COSPAR-PPP Chair)</i>
11:30-11:40	<b>Q&amp;A</b>
11:40-11:55	<b>COSPAR Planetary Protection Panel</b> <i>(Gerhard Kminek, COSPAR-PPP Vice Chair, ESA PP Officer)</i>
11:55-12:00	<b>Q&amp;A</b>
12:00-12:30	<b>Basics of Microbiology</b> <i>(Petra Rettberg, DLR Institute of Aerospace Medicine Astrobiology Group Leader)</i>
12:30 -12:35	<b>Q&amp;A</b>





12:35-13:05	<b>Bioburden Control Measures</b> <i>(Andy Spry, SETI Institute, Advisor to NASA-PP Officer)</i>
13:05-13:10	<b>Q&amp;A</b>
13:10-13:15	<b>Group Photo</b>
13:15-14:30	<b>Lunch</b>
14:30-14:50	<b>Planetary Protection Organization at ESA</b> <i>(Gerhard Kminek, ESA PP Officer)</i>
14:50 -15:00	<b>Q&amp;A</b>
15:00-15:20	<b>Planetary Protection Management at NASA</b> <i>(Andy Spry, SETI Institute, Advisor to NASA-PP Officer)</i>
15:20-15:30	<b>Q&amp;A</b>
15:30-15:50	<b>Case Study COSPAR Category II - BepiColombo</b> <i>(Gerhard Kminek, ESA PP Officer)</i>
15:50-16:00	<b>Q&amp;A</b>
16:00-16:15	<b>Coffee Break</b>
16:15-16:35	<b>Case Study COSPAR Category III - ExoMars Trace Gas Orbiter</b> <i>(Gerhard Kminek, ESA PP Officer)</i>
16:35-16:45	<b>Q&amp;A</b>
16:45-17:05	<b>Case Study COSPAR Category V (Restricted Earth Return) - Mars Sample Return</b> <i>(Gerhard Kminek, ESA PP Officer)</i>
17:05-17:15	<b>Q&amp;A</b>
17:15-17:30	<b>Managerial Lessons Learned</b> <b><i>[PP Good Practices, dos and don'ts, and Check List]</i></b> <i>(Alissa Haddaji, COSPAR-PP Project Officer)</i>
17:30-17:35	<b>Q&amp;A</b>
17:35-18:00	<b>The International Planetary Protection Handbook-Next Steps/Feed Back Form/</b> <b>Wrap-up</b> <i>(Alissa Haddaji, COSPAR-PP Project Officer)</i>
18:00	<b>Adjourn</b>

---

---





**Lecturers (in alphabetical order):**

- Athena Coustenis (ESSC, France)
- Alissa Haddaji (COSPAR, France)
- Gerhard Kminek (ESA, Europe)
- Petra Rettberg (DLR Koln, Germany)
- Andy Spry (SETI Institute, USA)

