

## **Keynote: Thomas Berger**

October 11, 2017

Note: Due to a technical problem, Social QA questions were not addressed during session.

1. What plans are there to share the MATROSHKA Astro Rad Radiation Experiment data publically post-mission?
2. Are private space tourism companies putting money behind this? It seems essential to their business models!
3. Is the female phantom used with a focus on long term reproduction impacts for humans on Mars?
4. What type of material is in the new protective vest?
5. It appears that much effort is being outbid into measuring radiation. What effort has gone into protecting the astronauts from radiation?
6. Any radiation effects on the human brain? Any protection devices in the works?
7. The space radiation sci community in US is pushing for more relevant exposure research. How can commercial space contribute?
8. How big is the radiation problem for LEO development, such as for tourism of medium-term duration?
9. In addition to monitoring radiation, do you have any thoughts on other environmental monitoring that could benefit from technology innovation?
10. Is there international agreement on acceptable radiation doses that should be allowed for space travelers, both short and long term?
11. Any adjacent commercial markets for the anthropomorphic phantoms?
12. Why is there no magnetic field around Mars?