

**Lasers for Space: Peaceful Use of Lasers in Outer Space, September 2020, Mikulov, Czech Republic**  
*Governance & Development of Lasers for Space Debris, Asteroids and Interstellar Travel*

**Day 1, 8:45-17:00, Mikulov Castle, Introductions of the topics**

*9:00-9:30 Welcome*

Petr Bohacek & Nikola Schmidt – Why are we here? Presentation of the Manifesto

*9:30-10:00 Coffee Break*

*10:00-12:00 Opening of Policy Questions*

Pete Worden, Breakthrough Initiative

Simonetta Di Pippo, UNOOSA

TBD, Czech Government

TBD, EU/ESA Official

Schmidt/Bohacek, Charles University

*12:00 – 14:00 Lunch*

*14:00-16:00 Opening of Technical Aspects and Developments*

Kevin Parkin, Breakthrough Initiative

Martin Ferus, Czech Academy of Science

Yue Gao, EOS

Phil Lubin, UC Santa Barbara

Bedrich Rus, Eli Beamlines

Michael Pisarik, HiLase

*18:00 – Wine Tasting*

**Day 2, 8:45-17:00, Volarik Winery, Separate Technical Sessions**

A: Policy Discussions (room Johanitter)

B: Technical Discussions (room Johanitter 1)

*8:45-10:45 (20min introduction, 6x10min presentations, 40min discussion of proposals)*

A: Security Regime for Peaceful Use of Laser in Space (UNOOSA, Joan Johnson-Freese)

B: Laser Propulsion (Wes Green, Bedrich Rus)

*10:45-11:15 Coffee Break*

*11:15-13:15 (20min introduction, 6x10min presentations, 40min discussion of proposals)*

A: Global Legitimacy, Framing and Narratives for Peaceful Laser Use in Space (Petr Bohacek, Pavel Dufek)

B: Space Debris Removal and Manoeuvring (Yue Gao, Claude Phipps)

*13:15-14:45 Lunch*

*14:45-16:45 (20min introduction, 6x10min presentations, 40min discussion of proposals)*

A: Legal and Regulatory Aspects of Peaceful Laser Use in Space (Martin Svec)

B: Asteroid Prospecting and Deflection (Phil Lubin, Martin Ferus)

*18:00 Wine Tasting*

**Day 3, Volarik Winery, Joint Sessions, 8:45-18:00**

*8:45-10:15*

Summary of Technical and Policy Discussions

*10:15-10:45 Coffee Break*

*10:45-12:45 (20min introduction, 6x10min presentations, 40min discussion of proposals)*

Practical Aspects of Technology Cooperation (CERN/ITER rep, Mark Robinson)

*12:45-14:15 Lunch*

*14:15-16:15*

Joint working group

Discussions

*16:15-16:45 Coffee Break*

*16:45-18:00*

Drafting a working charter

Establishing working groups for further research/steps

*19:00 Final dinner and closing wine tasting*

**Papers Format:**

Presented papers must be in a form of proposal for technical or policy solutions to the community goals of

- a) establishing a functional, inclusive, global and peaceful use, management and development of giant laser systems in space
- b) advancement of technology and addressing key obstacles in the development of lasers space applications in areas of ablation or momentum transfer

**Working Groups Format:**

The chairs will introduce the topics, their main challenges and goals of the working group followed by selected presentation. The discussion will aim to debate and identify the next steps forward and discuss future work and research agenda in advancing the goals of the community.

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