

INSTITUTE OF INTERNATIONAL RELATIONS PRAGUE



Prague Laser Space Apps Conference, HiLASE – Breakthrough Initiatives

08:30-16:00, 10.11.2021, HiLASE Centre, Za Radnici 828, Dolni Brezany, Czech Republic

ARRIVAL/WELCOME/INTRODUCTION, 8:30-9:05, 35 MINUTES

SESSION 1, 9:05-10:00, 55 MINUTES

Trends in laser supply chains and component costs for Breakthrough Starshot

Presentation 1 (James Schalkwyk, Breakthrough Initiatives) – 10 minutes

Presentation 1 (Chathura Bandutunga, ANU) – 15 minutes

Discussion – 30 minutes

COFFEE BREAK, 10:00-10:15, 15 MINUTES

SESSION 2, 10:15 – 11:45, 90 MINUTES

Integrated Space Experiments

Presentation 1 (Zac Manchester, Carnegie Mellon) – 15 minutes

Presentation 2 (Michael Kelzenberg, Caltech) – 15 minutes

Discussion – 15 minutes

Laser Communication

Presentation 1 (Phil Mauskopf, ASU) – 15 minutes

Presentation 2 (Stanislav Zvanovec, FEE CVUT) – 15 minutes

Discussion – 15 minutes

LUNCH BREAK, OLIVUV PIVOVAR (OLIVA'S BREWERY) 11:45 - 13:00, 75 MINUTES

SESSION 3, 13:00-14:15, 75 MINUTES

Laser Ablation Propulsion systems

Presentation 1 (Jacopo Terragni, University of Trento) – 15 minutes

Presentation 2 (Martin Smrz, HiLASE) – 15 minutes

Presentation 3 (Michael Pisarik, HiLASE) – 15 minutes

Discussion – 30 minutes

COFFEE BREAK, 14:15-14:30, 15 MINUTES

SESSION 4, 14:30-15:15, 45 MINUTES

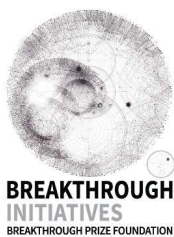
Space-based lasers (uses, concepts and missions)

Presentation 1 (Petr Bohacek, HiLASE) – 15 minutes

Discussion – 30 minutes

CLOSING DISCUSSION, 15:15-15:45, 30 MINUTES

The conference consists of the technical session on 10th November and the strategy session on 11th November



Confirmed Participants

Phil Mauskopf	School Of Earth and Space Exploration, Arizona State University
Mike Kelzenberg	Applied Physics & Materials Science, California Institute of Technology
Zac Manchester	Robotics Institute, Carnegie Mellon University
Chathura Bandutunga*	Centre for Gravitational Astrophysics, Australian National University
Samuel Rodgers	University of Colorado – Boulder
Jacopo Terragni	University of Trento
Pete Worden	Breakthrough Initiatives
James Schalkwyk	Breakthrough Initiatives
Kyran Grattan	Breakthrough Initiatives
Peter Klupar	Breakthrough Initiatives
Thomas Dekorsy*	Institute of Technical Physics, German Aerospace Center (DLR)
Stefan Scharring*	Institute of Technical Physics, German Aerospace Center (DLR)
Juraj Dudas	Czech Aerospace Research Centre (VZLU)
Ladislav Pina	Rigaku Innovative Technologies
Richard Sysala	esc Aerospace
Petr Suchanek	esc Aerospace
Antonin Fajstavr	Crytur
Pavel Porizka	Lightigo
Marek Rozehnal	Lightigo
Stanislav Zvanovec	Faculty of Electrical Engineering, Czech Technical University
Josef Blazej	Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University
Miroslav Krus	Institute of Plasma Physics, Czech Academy of Sciences
Pavel Peterka	Institute of Photonics and Electronics, Czech Academy of Sciences
Tomas Mocek	HiLASE, Institute of Physics, Czech Academy of Sciences
Michael Pisarik	HiLASE, Institute of Physics, Czech Academy of Sciences
Martin Smrz	HiLASE, Institute of Physics, Czech Academy of Sciences
Martina Rehakova	HiLASE, Institute of Physics, Czech Academy of Sciences
Jan Brajer	HiLASE, Institute of Physics, Czech Academy of Sciences
Petr Bohacek	HiLASE, Institute of Physics, Czech Academy of Sciences

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