

Session Program

30 September 2019 to 3 October 2019



The 8th International Ice Drill Symposium

Session 7

The Royal Danish Academy of Sciences and Letters
The Royal Danish Academy of Sciences and Letters H.C. Andersens Boulevard 35 DK-1553
Copenhagen V Denmark

Thursday 3 October

13:00

Session 7

Session |

Location: The Royal Danish Academy of Sciences and Letters, The Royal Danish Academy of Sciences and Letters
H.C. Andersens Boulevard 35 DK-1553 Copenhagen V Denmark

13:00-13:20 **Drilling the coldest firn**

Speaker

Sepp Kipfstuhl

13:20-13:40 **Control System Designs for Ice Coring Drills**

Speaker

Mr Jay Johnson

13:40-14:00

Recoverable autonomous thermal sonde for subglacial lakes exploration: heating control system design

Speakers

Haibin Yu, Mr Chong Li, Dr Shilin Peng

14:00-14:20 **Bench Tests of Mechanical Ice Core Drilling**

Speaker

Mr Alexey Turkeev

14:20-14:40

Design and analysis of a hydraulic tension sensor for ice drill and deep water applications

Speakers

Jianguang Shi, Dr Shilin Peng, Dr Haibin Yu

14:40-15:00

SLUSH: Hybrid electromechanical-thermal drilling system for penetration of Europa ice

Speakers

Mr Boleslaw Mellerowicz, Dr Kris Zacny, Mr Joseph Palmowski, Mr Gale Paulsen

15:00-15:40 **Coffee**

15:40-16:00

Preliminary Studies on Melting Cutting and Coring Ice by Using Laser for Ice Drilling

Speaker

Dr Nan Zhang

16:00-16:20 **Optical Cryobots and Other Novel Methods for Deep Ice Penetration**

Speaker

Dr Tanner Neal

16:20-16:40

**Recoverable autonomous thermal sonde for subglacial lakes exploration:
electronic control system design**

Speakers

Dr Shilin Peng, Dr Jianguang Shi, Dr Haibin Yu

16:40

16:40

Session 7: Discussion

Session |

Location: The Royal Danish Academy of Sciences and Letters, The Royal Danish Academy of Sciences and Letters
H.C. Andersens Boulevard 35 DK-1553 Copenhagen V Denmark

19:00