

The 8th International Ice Drill Symposium



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University of Copenhagen Ice Core Drilling Operations Since 2013 and Future Outlook

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Since the last update at the Seventh International Drilling Workshop on Ice Drilling Technology, in Madison, WI USA in September of 2013, the drilling group at the University of Copenhagen (UCPH) has been responsible for several shallow, intermediate, and deep drilling operations in both Greenland and Antarctica. The deep drilling program, EastGRIP, placed near the onset of the North East Greenland Ice Stream (NEGIS), began in 2016 and is ongoing with the goal of reaching bedrock near 2700 m by 2020. The intermediate depth program at Renland, Greenland (RECAP –584 m) was completed in 2015 and two intermediate depth programs together with the Australian Antarctic Division: Aurora Basin North, Antarctica (ABN –303 m) and Mt. Brown, Antarctica (299 m), were completed in the 2013-14 and 2017-18 field seasons respectively. Several shallow drilling campaigns for partners associated with EastGRIP and RECAP have occurred concurrently with those projects, and a shallow drilling mission into the warm glaciers on Disko Island, Greenland was done in the Spring of 2018. The UCPH collection of Hans Tausen type drills and the Danish shallow drill were adapted to each purpose which will be highlighted in this presentation, together with a look at the new and familiar challenges experienced at each drilling operation.

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