

Drilling through the Ice

Call for Papers

The International Glaciological Society (IGS) will publish a special issue of the *Annals of Glaciology* with the theme 'Drilling through the Ice'. The issue will be part of *Annals* Volume 61 and will be issue number 83.

The Co-Chief Editors for this issue are D. Dahl-Jensen, S.B. Hansen, Trevor James Popp (Niels Bohr Institute, University of Copenhagen) and Pavel Talalay (Jilin University)

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This is a thematic issue so we must insist on strict adherence to deadlines.

- Submission will open 15 October 2019
- 1 May 2020 – deadline for submitting a manuscript for this *Annals*.
<https://mc.manuscriptcentral.com/AOG>
- 1 November 2020 – deadline for supply of final accepted paper.
- Accepted papers will be published online as soon as authors have returned their proofs and all corrections have been made.
- The hard copy is scheduled for publication in late 2020

Theme

Ice drills are crucial to access ice for climate research and other studies of the water and basal conditions under glaciers, ice caps and ice sheets. The ice related research especially related to understand the past and present climate will improve our ability to predict the impacts under future climate changes. New techniques are rapidly evolving within ice drills and include rapid access drills, replicate drilling and thermal and hot water drilling. This symposium presents a timely opportunity to show recent advances in our knowledge and technological capabilities in ice drilling technology. In addition, the symposium will include the ice drill related themes like ice core handling, borehole logging and ice camp logistics.

Topics of interest are:

1. **Ice drilling:** Development within shallow, intermediate, deep drills
2. **Hot water drilling:** Development within shallow, intermediate, deep systems
3. **Thermal ice drilling:** Hot points techniques and coring abilities

4. **Rapid access ice drilling:** Development of technologies for rapid access drilling
5. **Sampling and clean technologies:** Methods for exploration of subglacial environment
6. **Probes:** Use of ice drills in extra-terrestrial investigations
7. **Complicated conditions:** Conditions like high altitude drilling, warm ice, firn aquifer layers, brittle ice, ice streams complicate ice drilling
8. **Special aspects:** Ice drilling technology include drilling fluids, control systems, surface and auxiliary equipment and drill cables and hoses
9. **Directional drilling:** There is a need for replicate sampling in many ice drill projects.
10. **Ice core handling:** Logging and handling ice cores
11. **Borehole logging:** For drill support and science
12. **Logistics:** Drill camp operations and future projects
13. **New challenges:** Future development of ice drilling technology

Other relevant topic suggestions are welcome. If you have such a suggestion, or if you have any questions about the suitability of your paper for this *Annals* issue, please contact the Associate Chief Editors at either ddj@nbi.ku.dk or sbh@nbi.ku.dk.

The *Annals of Glaciology* is listed on the 'Web of Science'. Current impact factor is 2.761

Please note the usual high standards of IGS publications apply, and authors are expected to contribute toward publication of the issue through article processing charges. For further details on article processing charges, please see

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