

IceCube Polar Science Workshop



Tuesday 19 January 2021 - Wednesday 20 January 2021

Scientific Programme

We would like to focus our attention on topics that are of potential interest to both the glaciological as well as astro-particle communities. The following topics were so far considered, but feel free to also contact us for topics outside this scope:

Rapid Access Drilling (RAID) at the South Pole and the possibility of a long term open hole

SPICEcore physical properties (in particular grain size, elongation, orientation and fabric), expected hole lifetime and borehole logging

Modeling of optical and radio propagation in birefringent polycrystals with crystal preferred orientation (CPO and COF)

Glaciology instrumentation in the IceCube Upgrade and IceCube Gen2

Data interests (both in terms of IceCube data (temperatures, images, ice analyses, ...) being interesting to glaciology, as well as

glaciology data being interesting to the IceCube detector modelling)

Drilling technology and logistics

Bedrock morphology and characteristics

Englacial heterogeneities and structures, layering architecture