

IDP Englacial and Subglacial Access Working Group

Terms of Reference

Preamble: The IDP Englacial and Subglacial Access Working Group (ESAWG) represents the broad range of scientists invested in interdisciplinary efforts to investigate, access, sample, and instrument englacial and subglacial environments. ESAWG seeks to involve representatives from communities such as:

Biology – *microbiology of ice, water, and sediment; biogeochemistry*

Hydrology – *physical/chemical hydrology of subglacial and englacial features, hydraulic testing*

Geology – *basal- and sub-ice sediment, sediment-water interactions, sub-ice rock, exposure dating*

Geophysics – *downhole geophysics, geotechnical observation, heat flow, basal motion*

Glaciology – *ice deformation, temperature, physical properties (e.g. grain size and crystal structure) of ice*

Technology – *robotics, melt-probes, long-term observation*

Oceanography – *grounding zone processes, sub-ice-shelf ocean observations, basal ice features, etc.*

Membership: Members of ESAWG will each bring important and relevant areas of expertise that represent community needs for science that requires borehole access to englacial and subglacial environments. Modeled after the ICWG, ESAWG should be 7 or 9 members, with no more than 2 members from the same institution to ensure broad community input. ESAWG members will typically serve a standard 5-year term, beginning during the first meeting attended. ESAWG may extend individual membership if necessary, although current members should not be re-appointed if new nominees are available. A staggered schedule of retirement and appointment should be maintained to ensure working group continuity and knowledge transfer. A Chair will be elected by ESAWG members, and will serve a 2-year term. Each member will have one vote on decisions by ESAWG. A minimum of one ESAWG member will also serve on the SAB, to facilitate liaison with the SAB and IDP.

Duties:

- ESAWG shall collaborate with the community to identify future needs for new subglacial and englacial access drilling technology (e.g., hot water drilling, meltprobe, etc.) and work with SAB/IDP to make recommendations for development and acquisition.
- ESAWG shall solicit input from the community to identify future englacial and subglacial drilling sites and site selection activities to short and long-term planning.
- ESAWG shall help form, review, and recommend future science to SAB and IDP to contribute to the IDP Long Range Science Plan.
- ESAWG will engage in discussion with members of ICWG to propagate information, collaborate on scientific efforts, and foster coordination between working groups.
- ESAWG meetings shall have minutes. The Chair of the ESAWG is responsible for sending the minutes to the Chair of other IDP-SAB working groups. Minutes of the meetings shall be posted to the ESAWG web site.

Meetings: ESAWG will meet annually, with travel and/or meeting expenses provided by the IDP. ESAWG meetings should be in person on even years, subject to availability of funding; odd year meetings will be held virtually. ESAWG meetings are open to the community except for Executive Sessions. Meetings of opportunity are encouraged and should be planned when possible to minimize travel cost. An appointed member who cannot attend an annual meeting should provide written input to the Chair on topics in the agenda in advance of the meeting; the missing member may not appoint a substitute attendee.