

## The 8th International Ice Drill Symposium



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### 4-Inch Drill to Foro 400 Evolution

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The 4-Inch Drill, designed and built by the Polar Ice Coring Office (PICO), has long been the work horse of the U.S Ice Drilling Program (IDP) for ice core recovery to 300 meters. While the 4-Inch Drills are still in use, the systems are aging and in need of replacement. To address the continued demand for robust and lightweight shallow ice coring drills, IDP has developed the new Foro 400 Drill. The Foro 400 Drill maintains desirable attributes of the 4-Inch Drill sled and tower design and pairs them with a shorter, 1-meter core length version of the IDP Intermediate Depth Drill (IDD) sonde. This provides for part interchangeability between systems while realizing a 40% weight savings over the 4-Inch Drill system. A newly designed control system provides finer winch control and an improved cable tension and payout display. Along with the drill development, special shipping cases have been designed to reduce weight and improve packing by providing specific storage places for each component.

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