

Helsinki University Kumpula Campus Drill Hole Project

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The Kumpula Campus Drill Hole Project aims at drilling a fully cored diamond drill hole in the Kumpula campus of the University of Helsinki. At the moment of writing the abstract, the drilling is scheduled for November-December 2015. In addition to the core, a number of downhole logs will be acquired as a contracted service for a full characterization of the geology and geophysics of the hole. The main use of the drill hole will be in undergraduate education in borehole geophysics, wireline logging, petrophysics and geological logging of the core as well as 3D modeling of downhole and surface structures. The Precambrian bedrock in the Kumpula campus is steeply dipping hornblende gneiss, amphibolite, tonalite and granite. The drilling site is on a hilltop on an extensive 1 ha size outcrop. The hole diameter will be 76 mm and the hole is oriented to NE with a dip of 70°.

The campus drill hole will be an important component in the university infrastructure for the education and research of geosciences. The presentation reviews the drilling and logging operations on a densely built campus area and the planned post-drilling use of the hole and the core.