

Feasibility Study for Developing the Boulby Underground Laboratory into a Facility for Future Major International Projects

Day 2 - Friday 12th March 2021 – 14:00 – 17:00

This second meeting will be a workshop type event used for information gathering from potential users of a proposed new underground facility at Boulby. It will focus on user requirements and making sure these are catered from within the facility specification.

Details of the first meeting, held on Friday 26th February 2021 can be found at the first meeting website, <https://indico.kcl.ac.uk/event/152/> , including a recording of the meeting.

Agenda – Day 2

<https://indico.kcl.ac.uk/event/154/>

<https://us02web.zoom.us/j/82546396354?pwd=VGY0RGtTNUZJMm1DSjZtL2hOa0Zndz09>

The agenda has been arranged based on interest shown so far. If any other project would like to be included please send an email to t.sumner@imperial.ac.uk

14:00 – 15:00 AION

15:00 – 16:00 DarkSideLM

16:00 – 17:00 NEWS-G DarkSphere

17:00 Close of meeting

As a guide we would be looking for the following information

General

Project name, science discipline, timeframe

Underground

Depth requirement – 1100, 1400m ?

Instrument* volume envelope

Veto type/size

Shielding type/size (e.g. water with 3 metre thickness all-round)

Height above expt for craneage during assembly and or for experiment subsystems

Approx footprint/volume of experiment subsystems and proximity requirements to instrument

Approx power requirements

Cooling/type/sizing

Cleanrooms?

Safety issues, i.e. any oxygen deficiency controls, high V, liquid scintillators, ...

Special expt requirements – e.g. capture of materials under fault situations

Special workshop requirements, power, scope – e.g. machining large items, electroforming etc.

Storage

Other ...

Surface

Numbers of people

IT

Workshops required

Storage

Other ...