

2022 MERIT

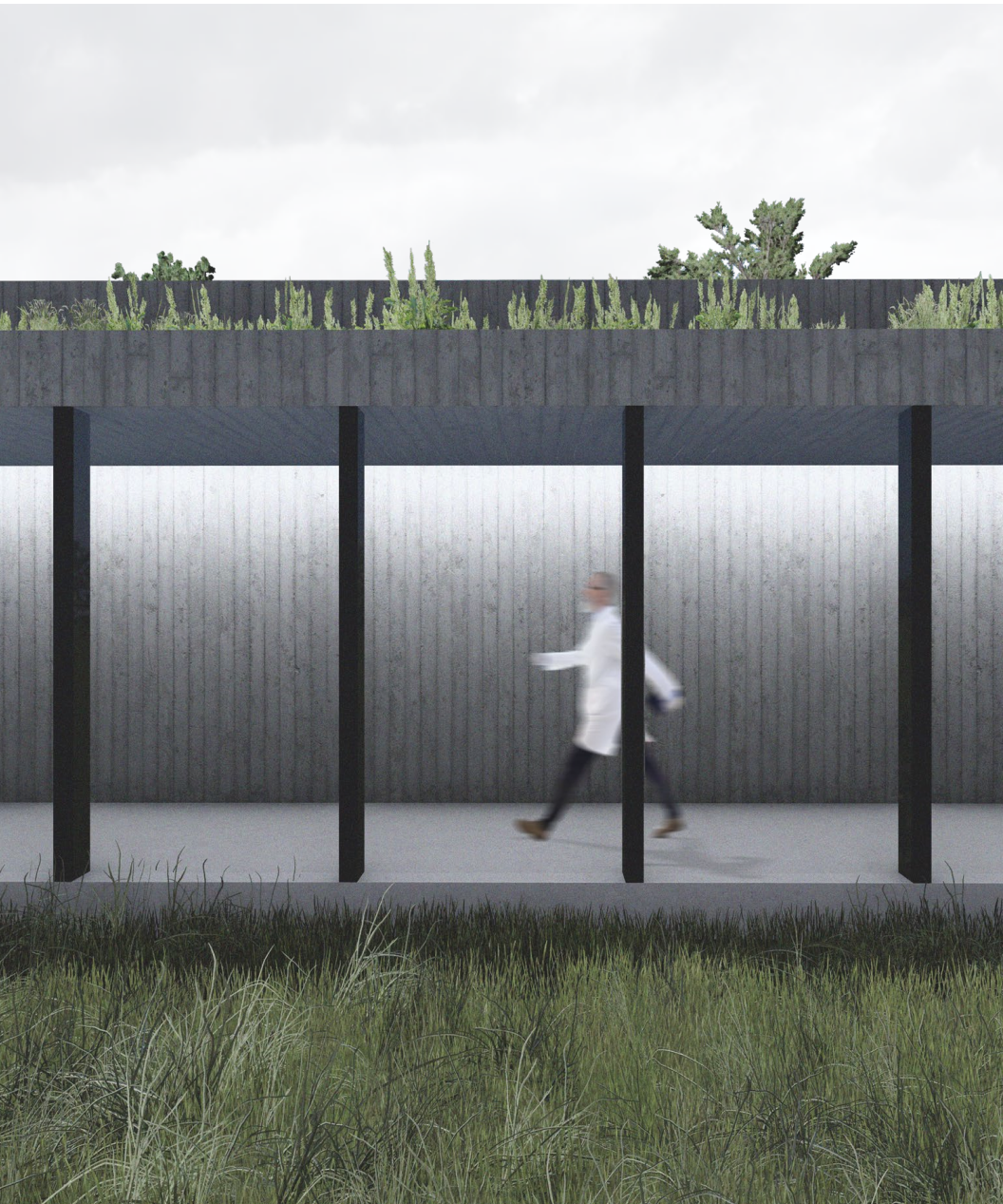
Noemie Ouellet

LAVAL UNIVERSITY

FACULTY ADVISOR - MICHAEL ROBERT DOYLE

LYCEUM

A traveling fellowship in Architecture



UNDERLAND - PLEISTOCENE RESEARCH CENTER

Project for The Friesenhahn Cave Site based on
Solids & Voids

LYCEUM FELLOWSHIP 2022 COMPETITION

ID : LF-9891

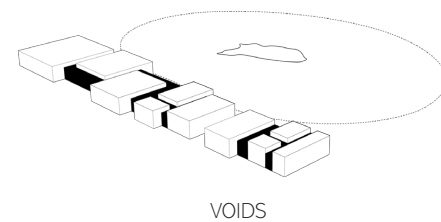
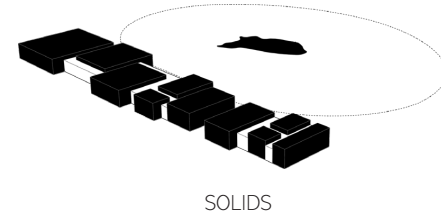
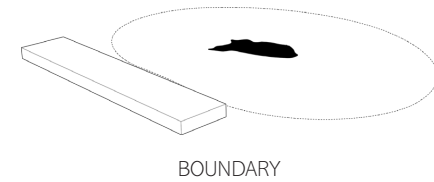
“ The void migrates to the surface ... ”

– *Advances in Geophysics* (Nielsen, 2016; 99)

The notion of void is found in the book *Underland* where solid gives way to the formation of cavernous voids, such as the Friesenhahn Cave Site with its karstic ground.

The proposal adopts an approach based on solids and voids to express the experience of the cave through the building's architecture.

The building marks a symbolic transition and forms a threshold between the 'present time' and the "deep time" of the ice age to protect the subterranean preservation zone.





The arrival sequence from Canyon Golf Road is articulated by solids and voids, directing movement through the site's existing vegetation and enhancing symbolically and experientially the edges of the subterranean preservation zone.



The vegetation blurs the transition with the surrounding "present day suburban condition", creating a symbolic passage through the pathway.

Discovery of the main pavilion: 03

“to understand light you need first to have been buried in the deep-down dark.”

– *Underland* (p. 50)



Main Elevation

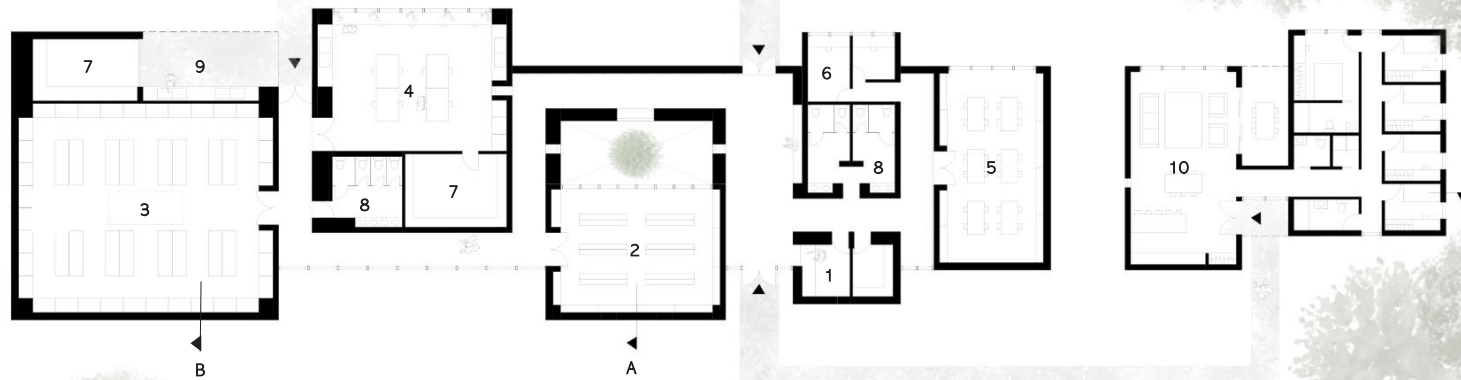


Back Elevation

0' 10' 30' 50'

Upon arrival, one discovers solid masses of concrete, which on the opposite side reveal their contents to the light, welcoming the relics to the Pleistocene area. The materiality creates a contrast to express the approach and the use of concrete contributes to the monumental aspect inspired by temples, while drawing inspiration from the underground.

SPZ

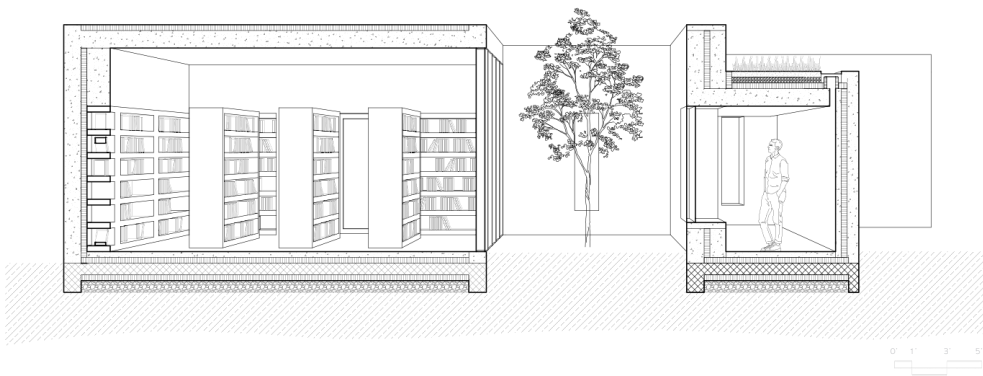


- 1. Visitor check – 150 SF
- 2. Library – 600 SF
- 3. Archive – 1 600 SF
- 4. Lab – 750 SF
- 5. Classroom – 600 SF
- 6. Offices – 140
- 7. Storage – 420 SF
- 8. Restrooms – 340 SF
- 9. Outdoor work area
- 10. Field house – 1500 SF

0' 10' 30' 50'

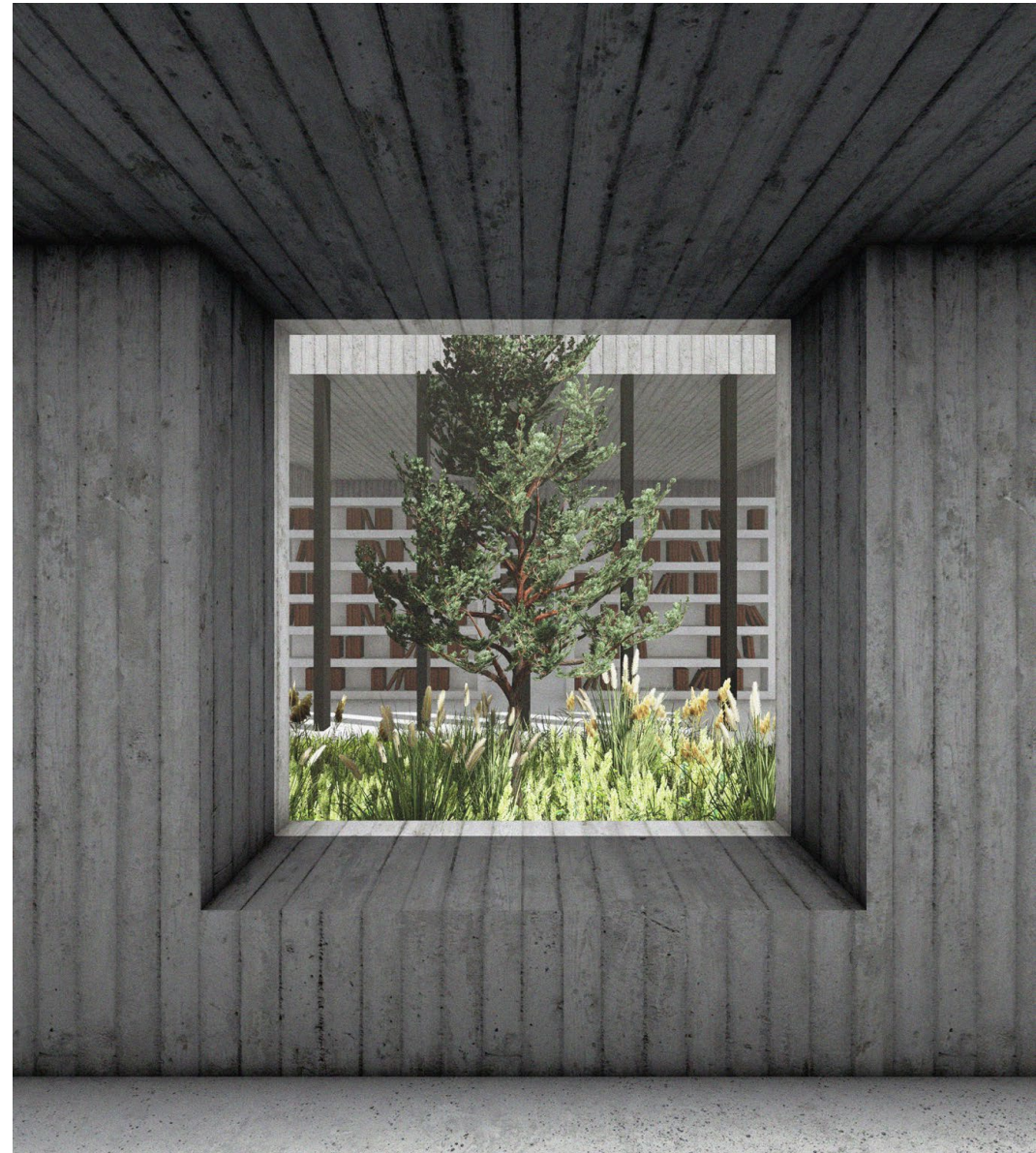
The spatial organization unfolds from the profane to the sacred through circulation spaces channeling the movement of visitors through an architecture of solids and voids.

Floor Plan : 05



In section, the thickness of the walls emphasizes the openings and makes visitors feel the mass of the thresholds. The variation in height creates a feeling of compression drawn from the atmospheres of the cave.

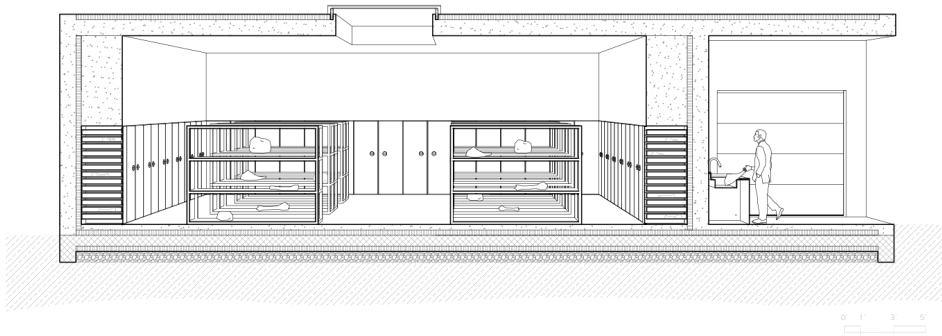
Section A - Discovery of the voids : 06





Openings form visual sequences inviting researchers and visitors to continue their path guided by light. The laboratories are visible to visitors during their pathway, although they cannot immediately enter them.

Glimpse of the Lab : 07



“ The void migrates to the surface ... ”
 – *Advances in Geophysics* (Nielsen, 2016; 99)

Section B – Respect of the Relics : 08

