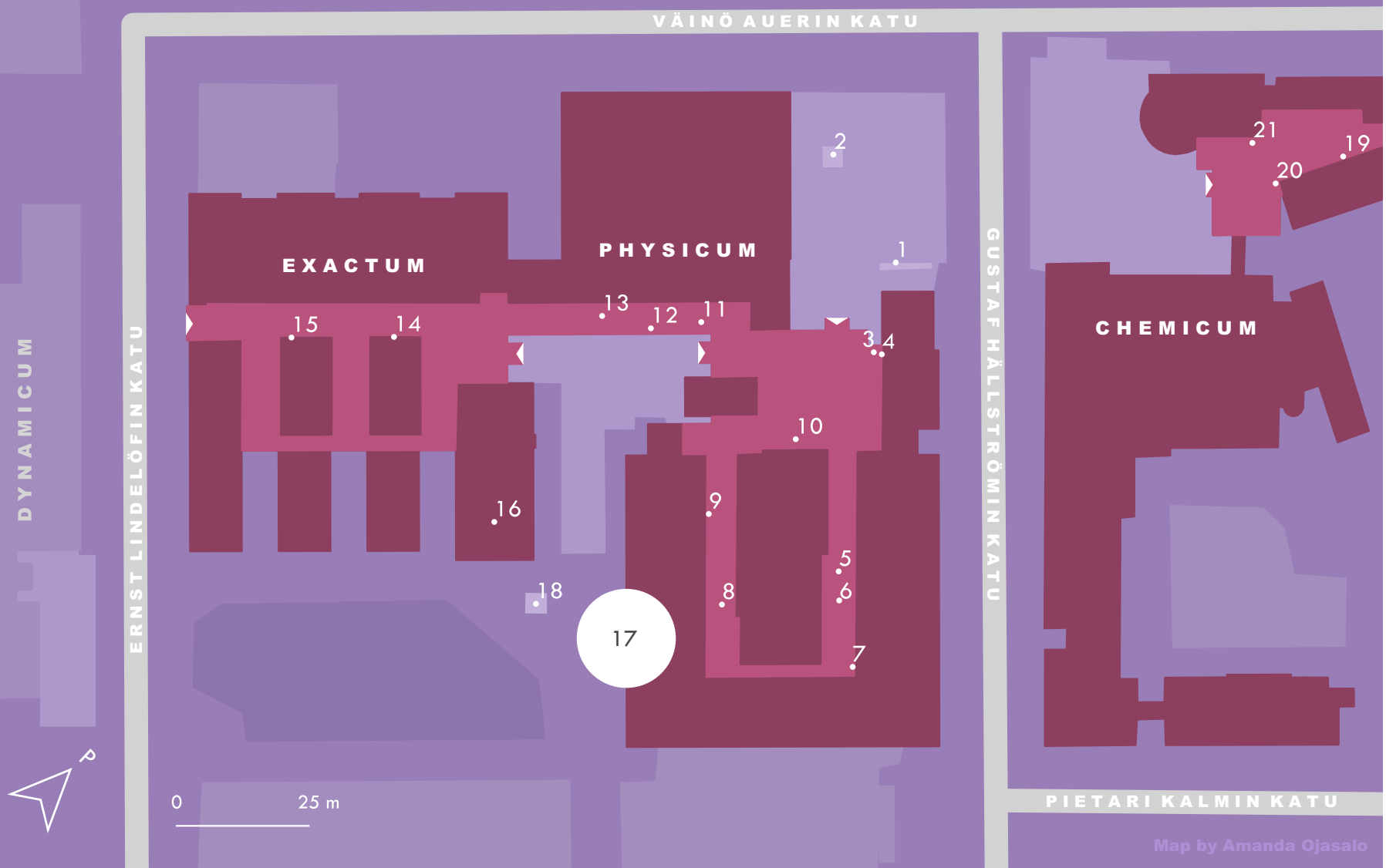
UNIVERSITY OF HELSINKI

KUMPULA CAMPUS

SCIENCE & ART WALK



1. Valo ja aine - Antero Toikka, 2002
2. Dimension stones
3. Orbicular granite sphere
4. The Kumpula geophysical measurement point
5. Sandbox
6. VR cabin
7. Old geographical equipment
8. Mineralogical map of Finland
9. Geological materials - the rock collection
10. Definitely Vortex - Josefina Nelimarkka, 2nd floor
11. Cloud chamber
12. Fossil
13. Art corridor
14. Old computers, 2nd floor
15. Automatic earthquake tracking, 4th floor
16. Green roof, 4th floor
17. Weather radar, best seen from Green roof
18. Chess Board
19. Old chemical lab instruments
20. Alkemistin unelma - Pekka Muinonen, 1995 2nd-4th floor
21. Test tube adult - Kari Caven, 1997, 4th floor

KUMPULA SCIENCE AND ART WALK

PHYSICUM

1. ARTWORK: ANTERO TOIKKA, LIGHT AND MATTER, 2002

- Finnish State Art Collection
The sculpture depicts the distribution of galaxies, with the shiny surface symbolising areas with a higher concentration of galaxies on average, and the matte surface areas with fewer galaxies. The material is mirror-polished stainless steel.

2. DIMENSION STONES

The spectrolite dimension stone is from the Ylämaa anorthosite quarry in Mättö. The drawings for the stone were drafted by Helena Korkka, laboratory technician from the Department of Geology, according to instructions from Ilmari Haapala, who headed the Department at the time. The dimension stone was placed here in 2003.

3. ORBICULAR GRANITE SPHERE

The sphere is made of orbicular granite from Savitaipale, and its base from rapakivi granite from a nearby location in Southern Karelia. Unusual circular shapes can be seen in both stone varieties. They were created in the magmatic processes that shaped the bedrock of south-eastern Finland during the Paleoproterozoic Era, approximately 1,630 million years ago.

4. THE KUMPULA GEOPHYSICAL MEASUREMENT POINT

The plaque indicates the latitude, longitude, ellipsoidal height, elevation, free-fall acceleration rate and magnetic field of this location.

5. SANDBOX

An augmented reality sandbox where you can try virtually modelling the impact of topography on the flow of water, for example. Use your hands or appropriate tools to shape the sand.

6. VR-CABIN

In the VR cabins, you can explore typical geography and geology resources in virtual reality using VR glasses. Other people in the space can also see what the user of the VR visor sees. In addition, the space has a climate change simulator as well as a three-dimensional experience simulating a nuclear explosion. The space also provides access to Google EarthVR and the point cloud models collected through fieldwork and used in research. (The general public can use the VR cabins when they are not being used for teaching.)

7. OLD GEOGRAPHICAL INSTRUMENTS

8. MINERALOGICAL MAP OF FINLAND

9. GEOLOGICAL MATERIALS – THE ROCK COLLECTION

10. ARTWORK: JOHANNA NELIMARKKA, DEFINITELY VORTEX, 2018, 2ND FLOOR

- A painting depicting the movement of air particles, 2018.
The idea for the piece came from the atmosphere research measurement tower at the Hyytiälä research station. When creating the painting, the artist thought about the movement of particles and contrasted her own painting process with the flow of particles.

CONNECTING HALLWAY

11. CLOUD CHAMBER

The thermal diffusion cloud chamber enables researchers to observe particles with the naked eye.

12. FOSSIL, PLASTER COPY OF A PLESIOSAURUS

This plesiosaurus specimen from Luomus comes from Holzmaden in southern Germany. Holzmaden is well known as a fossil location, with many fossils found there from the early Jurassic period, approximately 180 million years ago. The contours of the body and skin can be seen in the original fossil, which makes it rare.

13. TAIDEKÄYTÄVÄ

Artworks made by art students.

EXACTUM

14. OLD COMPUTERS, 2ND FLOOR

15. AUTOMATIC EARTHQUAKE TRACKING, 4TH FLOOR

The monitor of the Institute of Seismology shows seismic events in Finland and the world in real time.

16. VIHERKATTO

The experimental green roof of Exactum is used to study the benefits (ecosystem services) and biodiversity of green roofs. This dry roof is being used to study how Finnish meadow plants that are increasingly rare fare in different types of soil. The researchers are measuring the prevalence of pollinating insects as well as how quickly invertebrates find their way to the roof once a green roof has been installed. The roof is a part of a series of experimental green roofs in the Fifth Dimension research programme.

17. WEATHER RADAR BALLOON ON THE ROOF

The radar balloon is used to study the physics of snow, rain and clouds and to conduct other kinds of basic research into the atmosphere and climate.

18. CHESS BOARD

CHEMICUM

19. OLD CHEMICAL MEASURING DEVICES AND LABORATORY INSTRUMENTS

20. ARTWORK: PEKKA MUINONEN, ALKEMISTIN UNELMA ('AN ALCHEMIST'S DREAM'), 1995

- Acrylic on canvas – Finnish National Gallery
“An alchemist’s dream of the elixir of life. The elements in the painting are gold, copper and ultramarine. The glimmer of gold and reflections from metallic paints. Deep reflections of ultramarine. Surface and depth. The cycle of life and the permanence of repetition.” Pekka Muinonen (translated from the Finnish)

21. ARTWORK: KARI CAVEN, TEST TUBE ADULT, 1997, 4TH FLOOR

A 60th birthday present for Professor Franciska Sundholm.

HELSINGIN YLIOPISTO