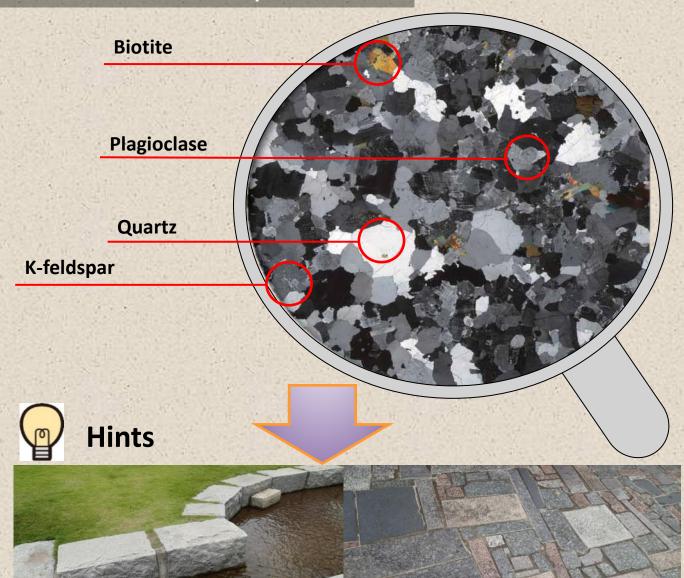


"What do you think this?"

It includes several components

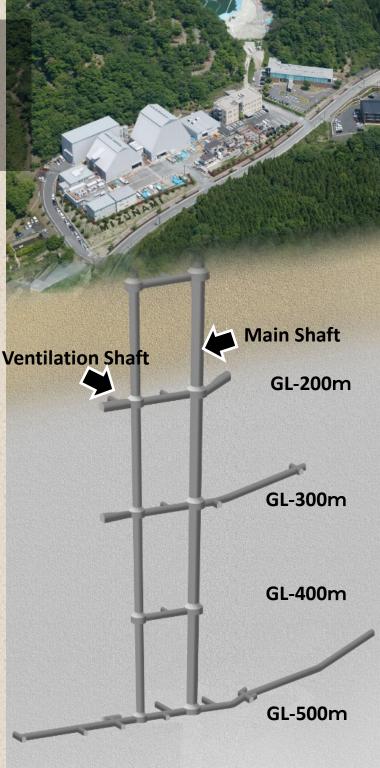


This is mainly used for decorations on the external wall columns or frames around the window.

The Answer is Granite!

Photo of granite through a special microscope (Polarizing microscope)!





Mizunami Underground Research Laboratory (MIU) located in Mizunami City, Gifu Prefecture, is performing a research project focused on granite.

For more infomation please see the link below: [http://www.jaea.go.jp/04/tono/tgc_e/index_e.html]

OK, let's join the site tour of the MIU underground facilities.





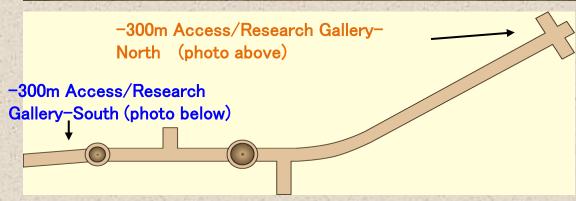


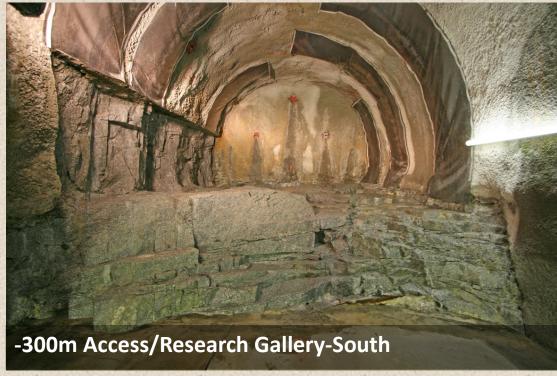




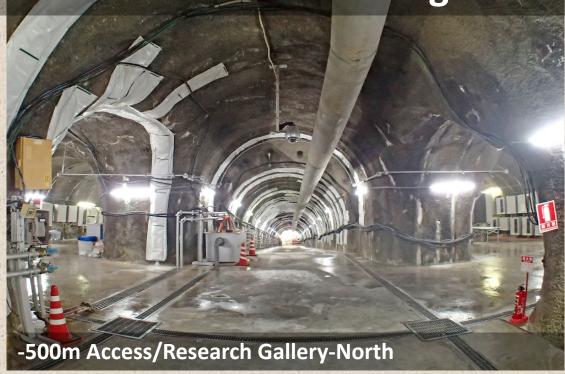


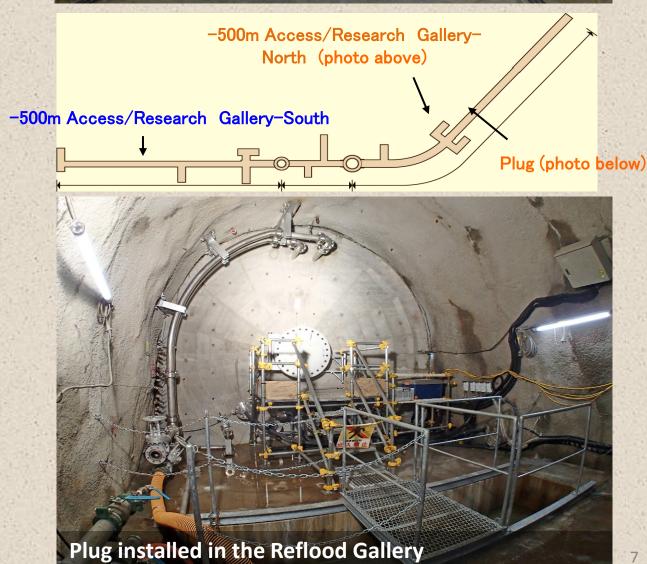




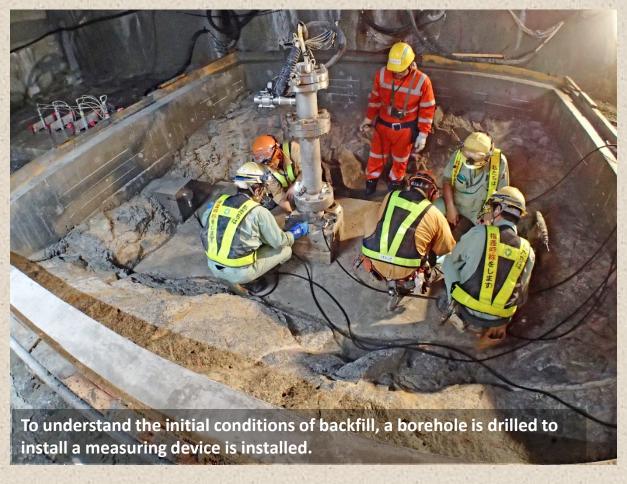


The World of 500m below ground!





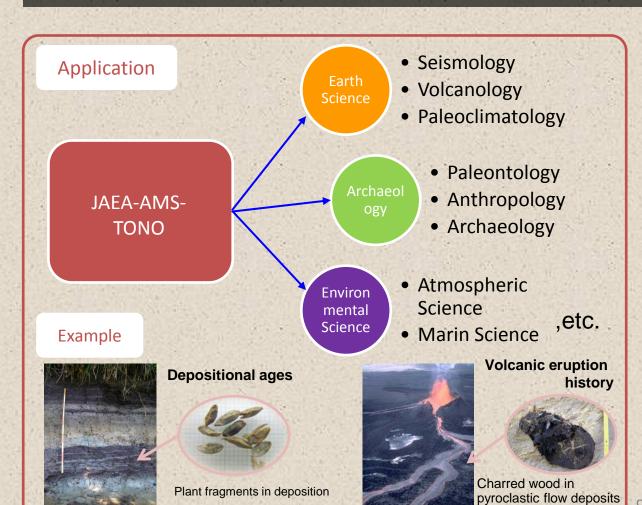




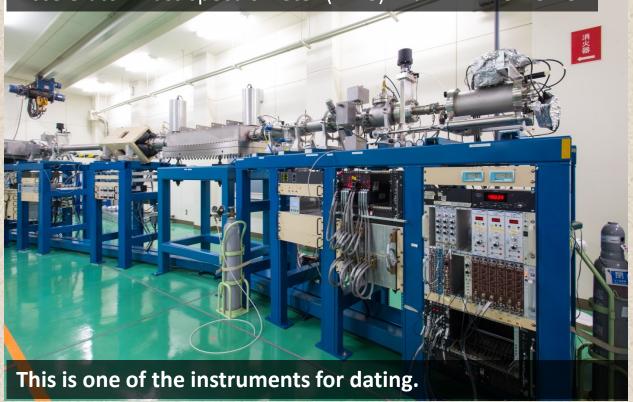
We are determining age in geological sample of several ten thousand years ago



"Toki Research Institute of Isotope Geology and Geochronology" is located near Mizunami Underground Research Laboratory that has been described in previous pages. In addition to these two laboratories, "Tono Geoscience Center" comprises other neighboring research bases. "Toki Research Institute of Isotope Geology and Geochronology" has been promoting neotectionic research.



Accelerator mass spectrometer (AMS) in JAEA-AMS-TONO





JAEA is committed to studying geological disposal technologies

Horonobe Underground Research Center

The main research focus of this center is sedimentary rock and saline groundwater. This center will be a feature of the next issue.







In the laboratories, laboratory simulations are conducted in order to investigate the quality of groundwater and the water quality change mechanisms.

Tono Geoscience Center

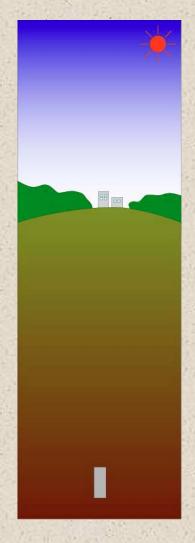
Mizunami Underground Research Laboratory /Toki Research Institute of Isotope Geology and Geochronology

Mizunami Underground Research Laboratory places the research focus on crystalline rocks and freshwater-groundwater. Toki Research Institute of Isotope Geology and Geochronology is devoted to neotectonics research. The photo below shows an accelerator of the AMS, which is a feature of this issue.





graph JAEA



02	Microscopic view of granite crystals
03	Mizunami Underground Research Laboratory
06	Underground World beneath Mizunami
09	Toki Research Institute of Isotope Geology and Geochronology
11	JAEA's study for geological disposal technologies
12	Geological Disposal of High-Level Wastes

(Cover photo) Seen at the back is the lateral drift, located 500m below the ground surface. The upper hole is connected to the main shaft. In this area, many investigations are conducted regarding the geology and strength of rock mass as well as the flow pattern and quality of groundwater.

Geological Disposal of High Level Wastes

For general descriptions on the geological disposal of high-level radioactive wastes, please click the link below:

[http://www.jaea.go.jp/04/tisou/english/brochure/pdf/jaea_girdd_e.pdf]

graph JAEA

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