

Research & Services | Paleomagnetic Laboratory (Yissum)

code: 34-2007-1759

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Categories	Paleomagnetism, rock magnetism, archeomagnetism, and environmental magnetism
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Objective/function

- The laboratory is active in the field of paleomagnetism and rockmagnetism

Research provided

- Measurement of natural remnant magnetization of rock samples with wide range of magnetization. The noise level ranges from high $10e-9$ to low $10e-8$ emu
- Automatic stepwise alternating field (AF) demagnetization up to 200 mT
- Thermal demagnetization in a shielded furnace
- Isothermal remnant magnetization acquisition up to 16 kg
- Magnetic susceptibility measurements
- ARM experiments and measurements
- Measurement of absolute paleointensity

Advantages

- Highly skilled, knowledgeable and experienced researchers utilizing state-of-the-art equipment and technologies

Client record and collaborations

- Israel Electrical Company (Nuclear Power station Project)
- Geological Survey of Israel
- Israel Antiquity Authority
- Scripps Institution of Oceanography - USA
- GeoForschungsZentrum Potsdam - Germany
- University of Toronto - Canada
- University of Tel Aviv

Available equipment

- ARM magnetizer 615 of 2G Enterprise integrated with AF coils.
- ASC IM-10-30 impulse magnetizer with a field range of 30g to 16kg
- ASC TD48 thermal demagnetizer with capacity of 48 samples, three-layer magnetic shield heat chamber and five-layer cool chamber 25-800°C
- Bartington susceptibility system MS2
- Magnetic particles extract line
- Shielded, three-axis cryogenic magnetometer SRM750 (sensitivity of 10^{-8} emu), with integrated AF coils (maximum of 200 mT)

Staff

- Hagai Ron, PhD
- Amotz Agnon, PhD

Contact

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Link to homepage

<http://earth.huji.ac.il/facilities-in.asp?id=27>

Contact for more information:

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