

Prof.Dr. Cavit Atalar

Research Interest:

Problematic soils of Cyprus,
Prediction of compaction characteristics of soils
Characteristics of unconsolidated soils
Evaporites of North Cyprus
Historical earthquakes of Cyprus
Physical properties of reservoir rocks
Swelling Clays: A Continuous Threat to the Build Environment of Cyprus
Bearing capacity of shallow foundations.

Project 1.

- a) Using CMG-6TD model Portable Microtremor device for microzonation and ground survey studies;
Determination of ground vibration periods
Determination of the field magnification coefficient
The real speed meter used to determine the friction coefficient.

- b) Earthquake prediction by detecting electromagnetic noise.

Project 2.

Obtaining S wave velocity at Lefkoşa using SPAC method.
Preparation of soil S wave velocity model
Obtaining the ground plane models according to S wave velocity
Calculation of theoretical ground transfer spectrum required for scenario earthquake study.
Performing ground dynamic analyzes with static equivalent earthquake load and time history studies using ground floor models
Preparation of ground response spectrum with SeismoSignal program