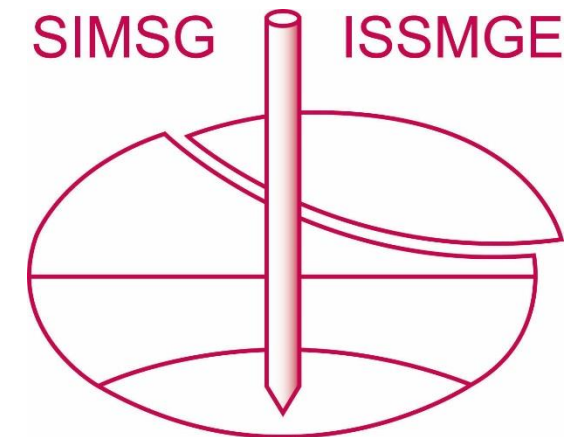




HELLENIC
SOCIETY
FOR SOIL
MECHANICS
& GEOTECHNICAL
ENGINEERING

Hellenic SSMGE & the Time Capsule project

Report by Spyros Cavounidis
Nov. 16 Presentation by Marina Pantazidou



HSSMGE's approach

- Interpreting “time capsule”
 - communicate progress
 - showcase achievements
- Selecting an organizing theme for the HSSMGE report
 - Geotechnical engineering & infrastructure in Greece
- Giving a title to the HSSMGE report
 - The contribution of civil-geotechnical engineers to the infrastructure of Greece

Report contents

- Geotechnical engineering in Greek universities: some elements of foundations in mid 30's, soil mechanics in late 40's
- Geotechnical engineering practice in Greece: enters its mature phase toward the end of the 20th century
- Infrastructure projects by category (next slide)
 - Main geotechnical challenges: mountainous terrain, seismicity
- What next?
 - Massive use of instrumentation and big data bring a new era for geotechnical engineering?

Infrastructure projects in Greece & Geotechnical Engineering

- Dams (Energy & water needs – Mediterranean weather means dry summers)
- Tunnels (Greece is very mountainous!)
- Bridges (not only for rivers – Greece is very mountainous!)
- Other transportation infrastructure: highways (fills), ports, airports
- Landslides & transportation infrastructure
- Sports & culture infrastructure
- Other notable projects
 - maintenance of Corinth canal and Mount Athos Monasteries, rehabilitation of 6th century BC Eupalinos (pronounced E-f-palinos) aqueduct