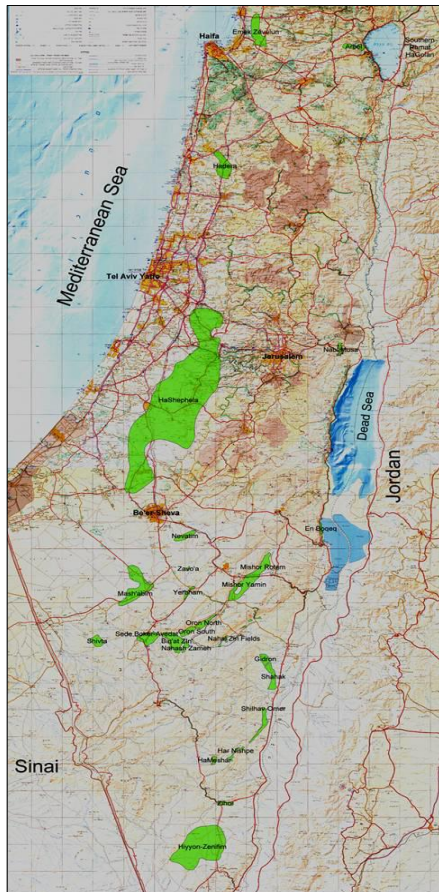


מחקר פצלי שמן

אוניברסיטת בן-גוריון בנגב
2012



Minster (2009)



סכמה של מחקרי פצלי השמן באב"ג

Dr. Almogi-Labin, IGS

GEOLOGY, PALEONTOLOGY

Dr. Abramovich & Prof. Feinstein

Bio Stratigraphy

Depositional Environments

Dr. A. Schneider
Dr. S. Ashkenazi-Polivoda
A. Meiljson
L. Ron

GEOCHEMISTRY

Prof. Feinstein
T. Edry O. Tubul
G. Dror E. Gecker

TOC
TS

HC Extr
Comp.

Heavy
metals

S
compounds

Pyrolysis
(P,T,t)

PETROPHYSICS

Prof. Hatzor & Prof. Feinstein

K. Bisnovat
O. Shitrit

Porosity

Permeability

Thermal
Conductivity

GEOMECHANICS

Prof. Hatzor

Acoustic
Velocities

Compressional
strength

Tensile
Strength

Oil shale sample

Pyrolysis Products

Oil & Gas

Solids Residue

Water

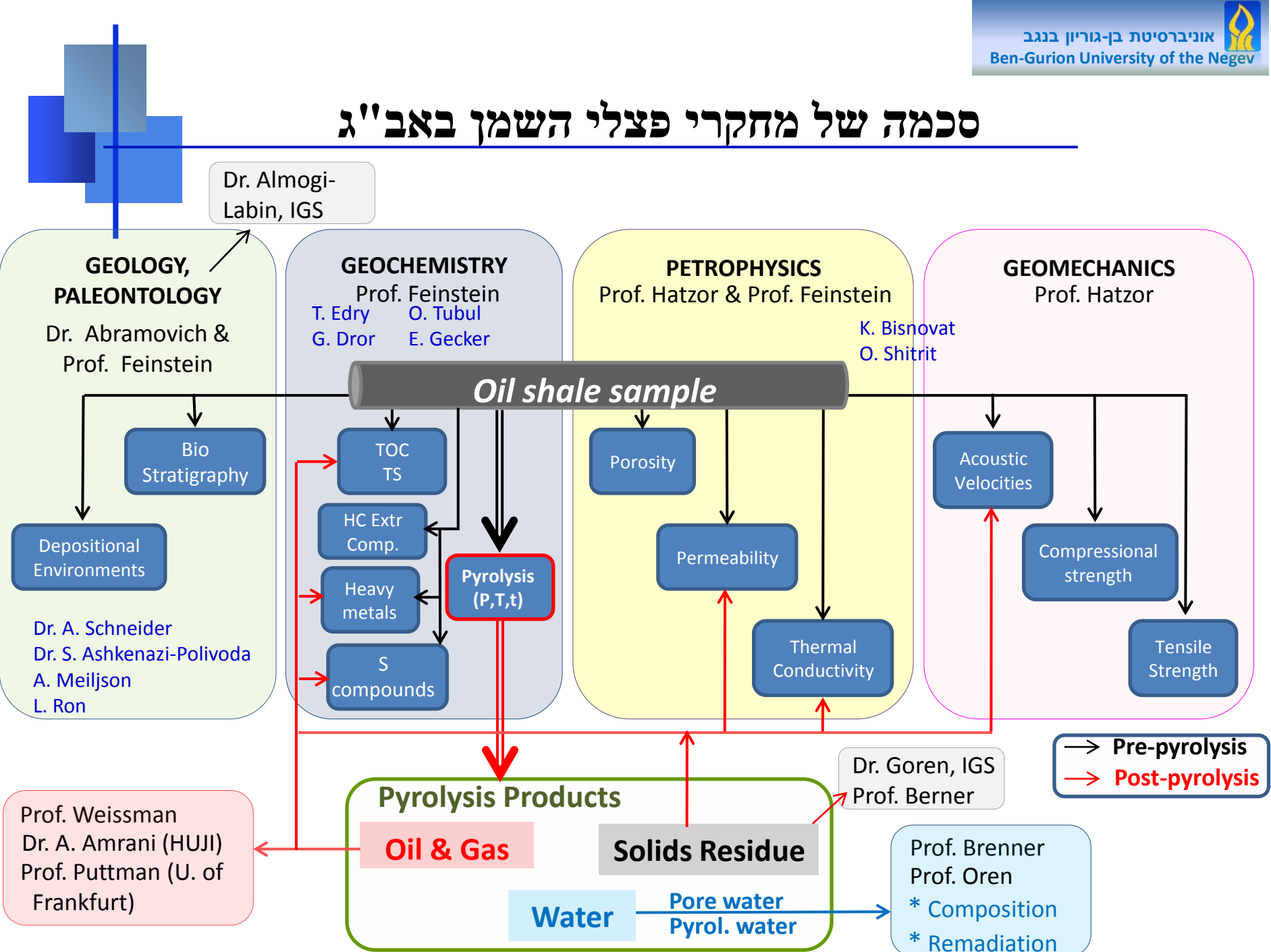
Pore water
Pyrol. water

Dr. Goren, IGS
Prof. Berner

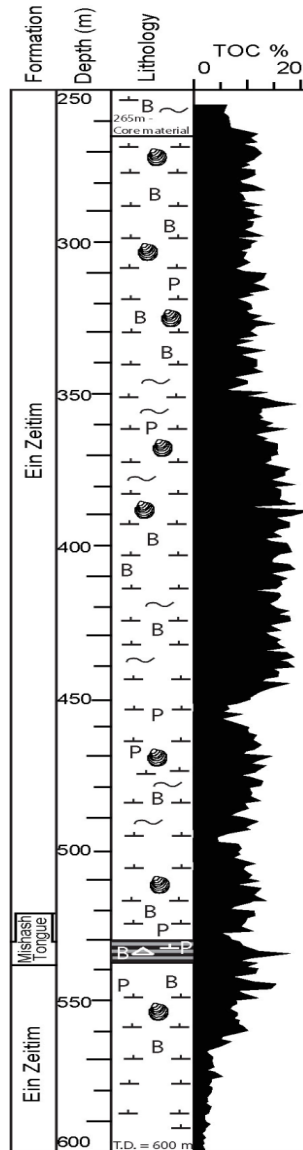
Prof. Brenner
Prof. Oren
* Composition
* Remediation

Prof. Weissman
Dr. A. Amrani (HUJI)
Prof. Puttman (U. of Frankfurt)

→ Pre-pyrolysis
→ Post-pyrolysis



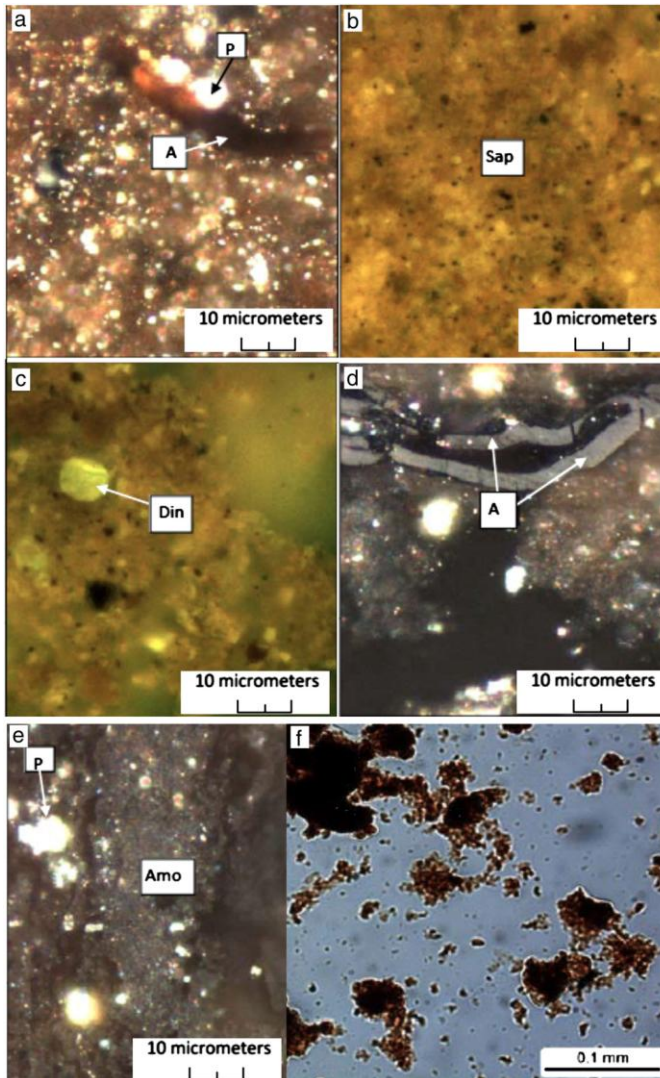
תכולת חומר אורגני (TOC wt%)



Leco unit for TC, TOC and TS measurements

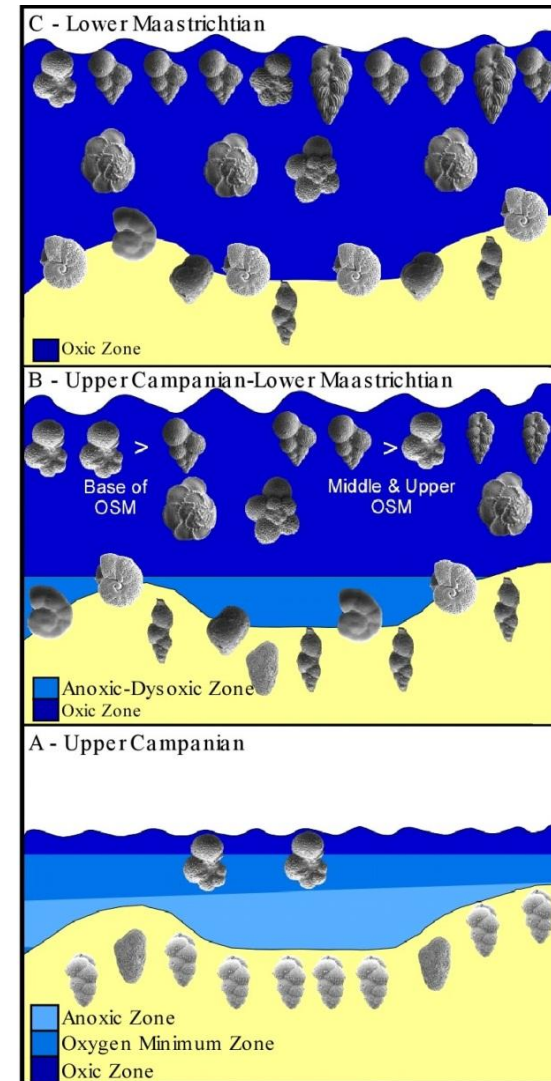
Organic petrology

kerogen type, productivity, preservation,
depositional environment



Micropaleontology

Biostratigraphy, productivity,
depositional environment

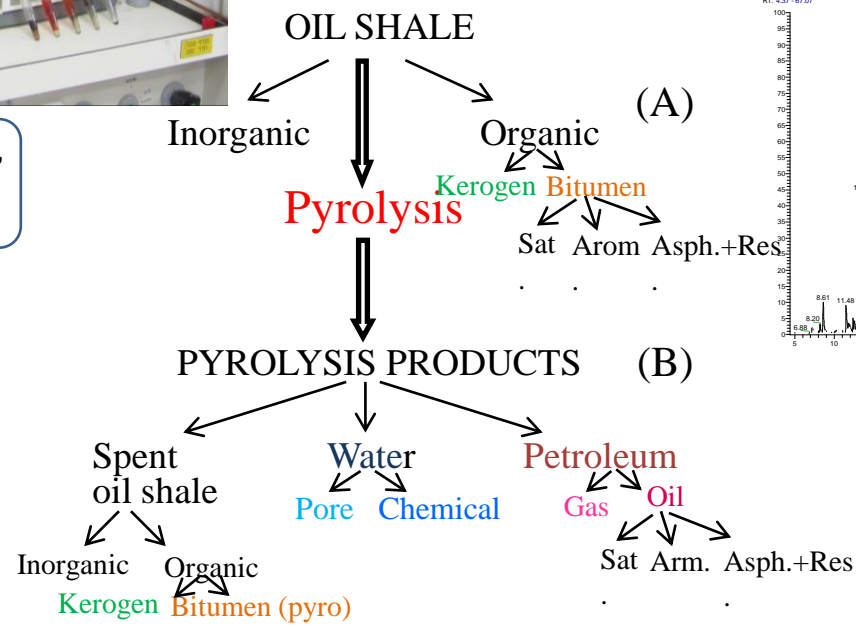


בדיקות גיאוכימיות

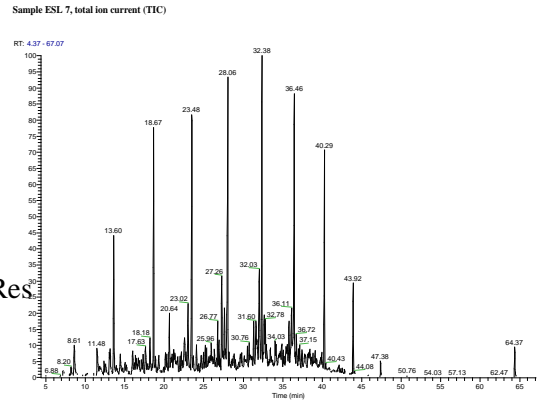
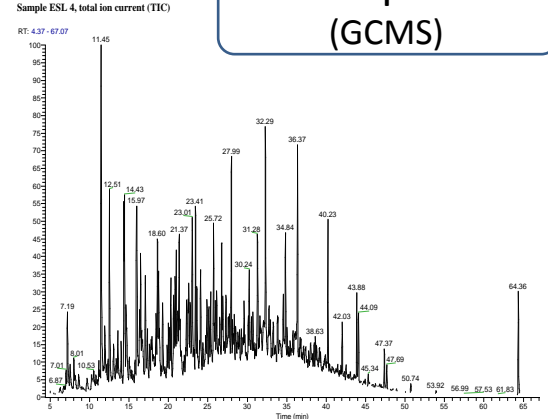


Pyrolysis reactors with oil, gas and water products

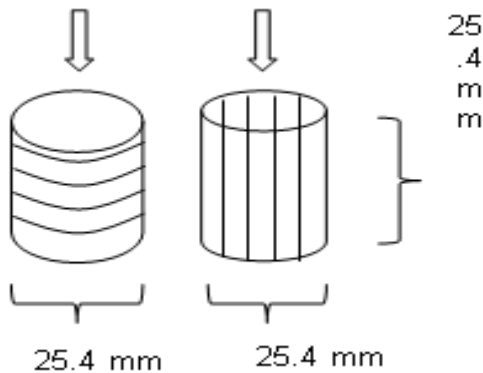
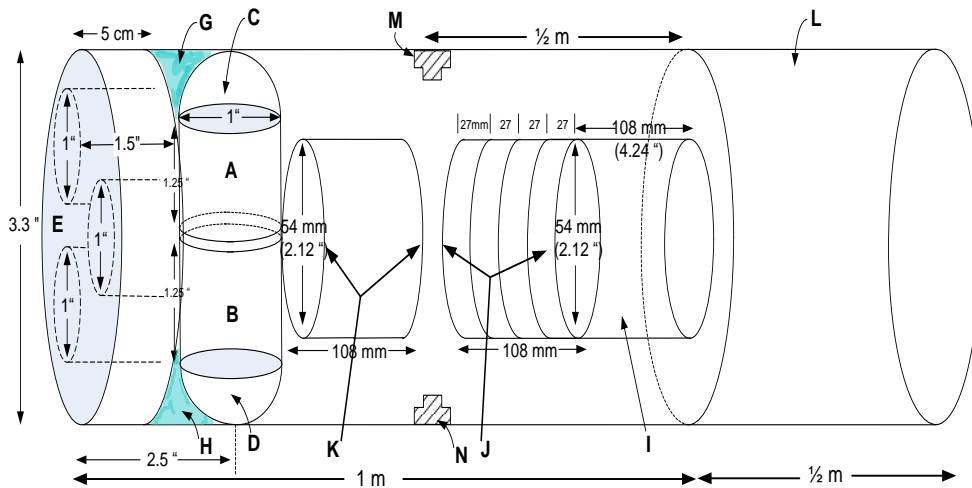
Analytical chart



Oil composition (GCMS)

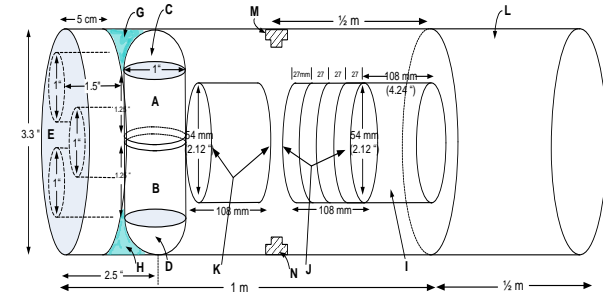


דיגום גלעין לבדיקות פטרופיסיות ומכניות

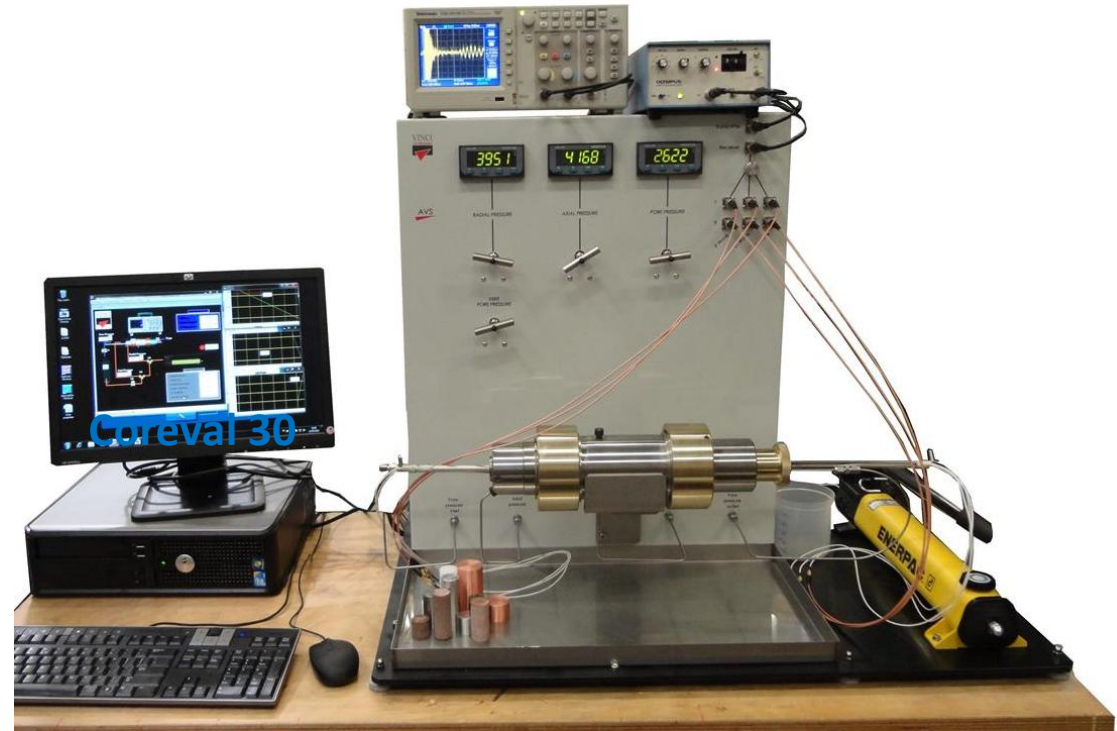




מוליכות חום



פורזיטי, פרמיאביליטי ומהירות מעבר גלים בסלעים



מערכת AVS למדידת מעבר גלי P ו-S בסלעים (Vinci technologies)

מערכת Coreval 30 למדידת פורזיטי ופרמיאביליטי
(Vinci technologies)

Brasilian tensile strength test



Uni- and triaxial compression test

