



TECHNICAL UNIVERSITY OF CRETE

Mineral Resources Engineering Department

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Research Unit: “Hydrocarbons Chemistry & Technology”

The “Hydrocarbons Chemistry & Technology” research unit performs geochemical studies, providing detailed analyses of crude oils and potential source rocks. The main objectives of our work are:

- ✓ Analysis and interpretation of biomarkers in crude oils and sediments
- ✓ Rock-Eval – total organic carbon analysis
- ✓ CHNS-O analysis
- ✓ Characterization of the depositional environment
- ✓ Evaluation of petroleum generation potential, maturity, degree of biodegradation
- ✓ Oil-oil and oil-source correlations

Available equipment

Soxhlet extractors

*Glassware for fractionation and sample
preparative work*

Rotary evaporators



Rock-Eval/TOC instrument



*Perkin-Elmer 8700 GC with Pyroprobe
1000 (CDS Analytical Inc.) unit and FID for
pyrolysis-gas chromatography analysis*



*Fisons MD-800 gas chromatograph-mass
spectrometer*



HP 7890/5973 gas chromatograph-mass spectrometer



Waters high pressure liquid chromatograph (HPLC) with RI, IR, UV-DAD and ELS detectors



Thermo Flash 2000 Elemental Analyzer

