

Laboratory of Toxic and Hazardous Waste Management

- **Director:** Em. Prof. Evangelos Gidakos
Telephone: 2821037789
Fax: 2821037850
E-Mail: gidarako@mred.tuc.gr

- **Staff:**

Name	Specialization	E-MAIL
Dr. Maria Aivalioti	Environmental Engineer	maivalioti@isc.tuc.gr
Dr. Fotini Simantiraki	Environmental Engineer	fotini.simantiraki02@gmail.com
Phd Candidate Panagiotis Chazirakis	Chemical, M. Sc.	xazirhs@gmail.com
Phd Candidate Ioannis Moukazis	Environmental Engineer, M. Sc.	imoukazis@gmail.com
Vlasis-Dimitrios Bolomytis	Environmental Engineer	vbolomytis@gmail.com
Alexandros Dermitzakis	Environmental Engineer	alexandrosderm@hotmail.com
Michail Pitsios	Environmental Engineer	mixail.pitsios11@gmail.com
Konstantinos Panagou	Skilled craftsman	k.panagou@icloud.com
Panagiotis Papoulias	Environmental Engineer, M. Sc.	ppapoulias432@gmail.com
Theodoros Papatheodosiou	Environmental Engineer	thpapatheodosiou@gmail.com
Georgios Chapsoulas	Geotechnical & Environmental Engineer	chapsoulasgeorge@yahoo.gr
Emmanouil Poulis	Skilled craftsman	poulis.manolis@gmail.com
Alexandros Papatheodosiou	Geologist	alexpapatheo@gmail.com

- **Research Activities**

- Management and treatment of hazardous, toxic and special waste (Asbestos, PCDD's, PCDF's, PCB's, radioactive, infectious, electronic / electrical, etc.).
- Municipal waste management
- Contaminated sites characterization and remediation

○ **Lab infrastructure**

● **Office**

Personal computers, screens, laptops, printers, scanners, etc.

● **Lab**

Gas chromatograph/mass spectrometer, elemental analyzer, industrial gas analyzer, high pressure and temperature reactor, shaking basis, solid waste bioreactors, flow tanks, precision balances, incubator, calorimeter, temperature reactor, furnace, cyclone, phase contrast microscope, dryer, peristaltic pump, gas detector adsorption columns of experiments, elemental analyzer, microextraction device, output device, ultrapure water, flash point determination apparatus, industrial gas sampling system, photometers, microwave system, Atomic absorption spectroscopy, fridge, etc..

● **Field**

Compressors, gas sampling pumps, groundwater samplers from drilling, pneumatic pumps, fixed and mobile free phase pumping system (Bioslurping), contaminated soil remediation systems (Bioventing, Air Sparging, Soil Vapour Extraction), portable devices for measuring conductivity and temperature in groundwater, portable system for conducting recovery and "breathing" tests, portable thickness meter for oily free phase in groundwater, etc..

○ **Research Projects**

- Groundwater / Soil Monitoring in the Industrial Facilities of Aspropirgos, Funding: HELLENIC PETROLEUM S.A. (2007-2020).
- Restriction of the Existing Contamination (Free Oil Phase) Around the Area of PYRKAL, Funding: HELLENIC PETROLEUM S.A. (2010-2020).
- Investigation on sitting of new landfill facilities in the region of Rethymnon, Funding: Municipality of Amari (2017-2020).
- Qualitative and Quantitative Characterization of Hazardous and Toxic Substances at the SEA DIAMOND Shipwreck - Environmental Impacts (Current and Future), Funding: Prefecture of South Aegean (2009-2011 & 2013-2016) .
- «Advanced Training in Integrated Sustainable Waste Management for Siberian Companies and Authorities – Tempus: TIWaSIC, Funding: EU (2013-16).