



CHRYSOULA TALLAROU

M. Eng Mineral Resources Engineer

PhD Fellow on Hydrates Technology & CO2 Capture

October
2021
-
now

- Technical University of Crete in collaboration with the Institute of Geoenergy of the Foundation For Research and Technology

Undergraduate/ MSc Thesis & Internships

2022
-
2025

- Co-supervision of 3 thesis and 2 internships during her PhD
- Organizing the timetable of the experiments, teaching the methodology, supervised the overall experimental procedures and supervised the final thesis

TWINN2SET EU funded Project

Assistant Coordinator

2022-
March
2026

- Organizing the technical, project meetings, workshops, conferences and Summer Schools
- Writing deliverables, preparing the promotional material and managing the EU Protal as well as the communication between the partners



Internship

During the 5-year studies at the Technical University of Crete she took place at 4 field trips in the framework of her undergraduate studies and fulfilled her one-month internship at the Public Power Corporation (PPC) – Autonomous Power Station (ΔΕΗ) in the region of Kos, in the fuel reception and processing department.

Awards

- **5 awards of excellence** from the Technical University of Crete one for each year of her studies while she graduated with the highest score in her class
- **The ANEK award** for her overall graduation scores
- **2nd place at the Bachelor's division of the 2021 SPE (Society of Petroleum Engineers) Europe Paper Contest** for her paper entitled "Effect of the asphaltene precipitation and deposition on the relative permeability curves of Berea Sandstone"
- The **1st award** from the **Technical Chamber of Greece (TEE)** in recognition of her academic achievements as a graduate of the School of Mineral Resources Engineering at the Technical University of Crete

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Education

• Integrated Master in Mineral Resources Engineering

Technical University of Crete

2015 - 2020

• PhD Fellow

Technical University of Crete/Institute of Geoenergy

2021 - now

Expertise in lab

- Relative Permeabilities, Reservoir wettability, Asphaltene precipitation
- High pressure systems, Hydrate technology (CO₂ & mixtures)
- CO₂ Capture technology using microalgae cultivations

Language

- Greek (native speaker)
- English
- German
- Spanish (in progress)

Software

LabView, Multiflash, CSMGem, Matlab, HydraFlash, MS Office, Excel, PowerPoint

Extras

Driver License, First Aid Certificate

Presentations/Publications

- “Laboratory investigation of the effect of rock wettability on the water-oil relative permeability curves in hydrocarbon reservoir cores”, 1st Conference of New Scientist , 26-28/02/2021, conference proceedings
- ‘Asphaltene precipitation and deposition alter the relative permeability curves of Berea Sandstones’ , Society of Petroleum Engineer during the Student Paper Contest , 11-12/05/2021 online
- <https://www.ot.gr/2021/06/11/academia/theamatiki-veltiosi-tis-anaktisimotitas-petrelaiou-me-efarmogi-texnikon-metavolis-tis-diavroxis/>, Oikonomikos Taxidromos
- “A combined experimental and computational study on the effect of the reactor configuration and operational parameters on formation, growth, and dissociation of carbon dioxide hydrate”. 14th Panhellenic Scientific Conference of Chemical Engineering, 29-31 May 2024, Thessaloniki, Greece
- <https://www.innovationnewsnetwork.com/twinn2set-twinning-to-sustainable-energy-transition/39883/>, Innovation News Network, November 2023
- “Effect of the Reactor Configuration and Operational Parameters on Formation, Growth and Dissociation of Carbon Dioxide Hydrate – A Combined Experimental and Computational Study”. 14th FORTH RETREAT 2024, 11-13 October 2024, International Olympic Academy, Ancient Olympia, poster
- A Combined Experimental and Computational Study on the Effect of the Reactor Configuration and Operational Procedures on the Formation, Growth and Dissociation of Carbon Dioxide Hydrate, 2024
<https://doi.org/10.3390/su16208854>
- “CO2 Capture using Microalgae Cultivations”, Researchers’ Night, September 2024, poster
- “Integrated hydrogen systems: comparative evaluation and experimental prototype”, Researchers’ Night 2025, poster

Volunteering

President of the SPE (Society of Petroleum Engineers) Student Chapter of the Technical University of

Crete

- Organizing technical and non technical events on Energy Transition, Oil and Gas Industry, Renewable Energy, Sustainability and Environmental Impacts, field trips, participating at the open days of the TUC Campus, connecting with Universities abroad

Social Activiteis Chairperson of of the SPE Student Chapter of TUC

- During 2024 the **Presidential Award for Outstanding Student Chapter for Technical Dissemination** was presented to the SPE Student Chapter of TUC from the SPE Community

Chair of the Electoral Committee for the election of student representatives to the Assembly of the School of Mineral Resources Engineering, Technical University of Crete – 14/11/2023

Chair of the Electoral Committee for the election of student representatives to the Dean’s Office of the School of Mineral Resources Engineering, Technical University of Crete – 15/12/2023

Participate at the Innovation Days 2022 and 2023 representing the Institute of Geoenergy, 25-27/11/22 & 24-26/11/23.

Participation at the Researchers’ Night organized every year at the premises of the Foundation

For Research and Technology in Heraklion, 30/09/22, 29/09/23 & 30/09/24

On 2024 participated with a poster entitled “CO2 Capture using Microalgae Cultivations”

On 2025 participated with a poster entitled “ Integrated hydrogen systems: Comparative Evaluation and Experimental Prototype”