

The Department of Engineering & the Marine & Carbon Lab invite you to a workshop:

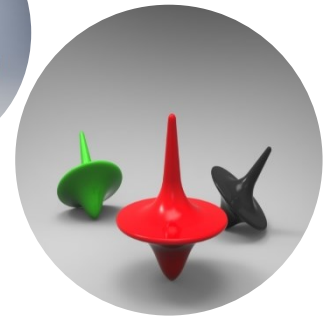
Free Training on 3D Printing



Additive manufacturing or 3D printing is the process of creating three dimensional solid objects from digital models. It encompasses many technologies and materials, and it is used for different applications ranging from dental products, architectural prototyping, reconstructing fossils, eyewear, and jewellery fabrication to name a few. Energy and other companies are looking for ways to build fuel pipelines and other components more efficiently and to reduce wasteful consumption. The FabRocks research project, funded by the Research Innovation Foundation, is concerned with the fabrication of core rock prototypes that can help study the physical lithological properties, such as, permeability and porosity of subsurface formations.

1. Workshop Objectives:

- Introduce attendees to 3D printing.
- Present various applications of 3D printing.
- Hands-on-experience on how to use an actual 3D printer.



2. The workshop is structured as follows:

- **10:00–10:30am:** Introduction to additive manufacturing (3D printing).
- **10:30–11:00am:** Overview of the FabRocks project.
- **11:00am–12:00pm:** Design of 3D objects/models, creation of printable files, printing prototypes & troubleshooting

Attendance only by registration. Please e-mail: Hadjistassou.c@unic.ac.cy

Speakers' bios:

Dr. Harry Iordanou is an Adjunct Faculty member at the Department of Engineering, at UNic. Harry holds a MSc and a PhD (1994, 1998 respectively) from Queen's University, Kingston, Canada, in Mechanical Engineering, specifically in System Kinematics, Dynamics, Vibrations, Controls and Robotics. Harry has extensive research and industrial experience in Space Systems, Control and Robotics as a Mission Operations Analyst for the International Space Station Robotic Assembly (1998-2002, MDR at Canadian Space Agency, St. Hubert, Quebec, Canada) and as a Flight Dynamics Engineer, Satellite Engineer, Space Segment Manager, Project Manager and Consultant over the 2003-2019 period at HS Consortium Ltd, Nicosia, Cyprus.

Dr. Constantinos Hadjistassou is Associate Professor, at the Department of Engineering, at UNic. Constantinos formed the Marine & Carbon Lab in 2016 which conducts research related to the marine environment and energy resources, that is, both renewable and conventional. Constantinos serves as a reviewer in several respected peer reviewed journals. He holds a Master's from MIT, USA, and a DPhil in Engineering Science from the University of Oxford, UK. His research interests comprise plastics at sea (marine debris), artificial intelligence, natural gas treatment and production, decarbonisation, and climate change.

Ms. Jumana Sharanik is a doctoral student at UNic's Oil, Gas and Energy Engineering program with a focus on the production and storage aspects of reservoir fluids in fabricated core rocks using additive manufacturing. Jumana as an analytical chemist has a diverse skillset. She was awarded a bachelor's and a master's degree from the Lebanese University.

The workshop to be delivered in English, will be open to the public. It will be free and will be live streamed via WebEx: www.webex.com; Link: <https://tinyurl.com/4byw4a27>; Meeting number: 2731 603 7283; Meeting pass: xfVuyieD436;

For more info, please visit the Marine & Carbon Lab: www.carbonlab.eu

Date: Wed., June 21, 2023.

Venue/Time: Mechanical Engineering Lab, A10, [Research & Tech Bldg](#), 10:00am–12:00pm.