

College of Science
Department of Applied Physics & Astronomy
Petroleum Geosciences & Remote Sensing Program

IGCP-715 Workshop in Hydrogeology and Structural Geology in Subduction Zones

University of Sharjah, 7-11 November 2023



unesco

International Geoscience
Programme

Aim

The primary aim of this workshop is to foster interdisciplinary collaboration between the fields of structural geology and hydrogeology.

Objectives

The specific objectives of this workshop are as follows:

1. To enhance the understanding of young researchers in the complex geometry, dynamic processes, and tectonic structures associated with subduction zones, besides deepening their knowledge in groundwater movement.
2. To facilitate practical learning, a specialized workshop on 3D geological and hydrogeological modeling, led by expert instructors, will be provided to participants. This hands-on experience will empower participants with valuable skills in geological modeling techniques.

Workshop Organizers



Dr. Daniel Moraetis
Associate Professor
University Of Sharjah
Dmoraitis@sharjah.ac.ae



Asma Alnaqbi
Lecturer
University of Sharjah
Asma.alnaqbi@Sharjah.ac.ae



With the assistance of EAGE
Student Chapter



Workshop Program

Day 1 7th Of November 2023

Time	Seminar/Activity	Location
9:15 - 9:30	Opening	Hybrid: M1 Ground floor AlBukhari Hall (M1 013) or https://sharjah-ac-ae.zoom.us/j/4860144414
9:30 - 10:15	Seminar 1: IGCP-715 progress and objectives Speaker: Dr Daniel Moraetis	
10:30 - 11:15	Seminar 2: Dynamic processes in subduction zones and generation of earthquakes Speaker: Dr Vasiliki Mouslopoulou	
11:30 - 12:15	Seminar 3: Structure Geology and Hydrogeology-3D modelling and case studies Speaker: Dr Arnauld Malard	
12:20 - 13:20	Lunch Break	
13:35 - 14:45	Seminar 4: The tectonic evolution of the Oman-UAE mountains, from ophiolite obduction to continental collision Speaker: Professor Mike Searle Link: https://sharjah-ac-ae.zoom.us/j/4860144414	
15:00 - 15:15	Seminar 5: Structure Geology in Wadi Rahbah Speaker: Dr Daniel Moraetis	
15:30 - 16:30	AquaFlow Challenge: Unraveling the Subterranean Pathways of Hydrology and Structural Geology	

Day 2 8th Of November 2023

9:30 - 12:30	Software Workshop VisualKarsys Speaker: Dr Arnauld Malard	M1 Ground floor AlBukhari Hall (M1 013)
12:30 - 13:30	Lunch Break	
14:00 - 15:00	Software Workshop VisualKarsys Speaker: Dr Arnauld Malard	

Day 3 9th Of November 2023

8:00 - 16:00	Visitors Field trip Light lunch will be provided	Buhais Geological Park & Ras Al-Khaimah
--------------	---	--

Day 4 10th Of November 2023

8:00 - 16:00	Visitor and Students Field trip Light lunch will be provided	Jebel Hafit, Al Ain
--------------	---	---------------------