

MOHAMED MABROUK

Lecturer



I- PERSONAL DATA

Full Legal Name: Mohamed Sayed Mabrouk Abd El Gawaad

Date of Birth: December 20, 1979

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Work: Geology Department-Faculty of Science-Cairo University

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II- Work Experience

Objective:

- **Lecturer** May 2014-till now.

Geology Department, Cairo University, Egypt

Duties:

- I have been taught different courses for 4 levels of Faculty
- Introduction to rocks and minerals (1st year), crystallography (1st year)
- Rocks and minerals (2nd year geophysics), Rock forming minerals (2nd year)
- Principles of geochemistry (3rd year),
- Advanced geochemistry (4th year geology), Applied mineralogy (4th year)
- Advanced geochemistry (Post-graduate), Aquatic environmental geochemistry (Post-graduate), environmental mineralogy (Post-graduate). Advanced mineralogy (Post-graduate),
- I supervised the laboratories of Crystallography (1st year), laboratories of Geology 2 (rocks and minerals) (1st year), Rock-forming minerals (2nd year), Laboratory and analytical techniques (3rd year) Structural mineralogy (3rd year), and principles of geochemistry (3rd year), Applied mineralogy (4th year)
- Teaching based on scientific method including asking questions, research, hypothesis, experiment, data, conclusion.

- We use some strategies like brain storming, thinking , proposing ideas and thoughts
- Students referenced by either textbooks and internet resources videos, interactive material and discussing their findings
- Prepare midterm and final exam either paper or digital on network through corona catastroph
- I was a member of the 1st and 2nd year exam control committee in the Geology Department and the academic coordinator for the 3rd year Student (2015).
- I was the representative of the Geology Department in the questionnaire managing and organizing committee affiliated with the Quality and Accreditation Unit of the Faculty of Science (2015 -2017).
- I am a member in the central control of Faculty of Science, Cairo University (2014-2017).
- I participated in organization of field trips to 3rd year students in the Eastern Desert of Egypt.
- I participated in organization of field trips to Abo Roash area and Qaret el Hadaden at El Sheikh Zayed area
- I participated in organization of field trips to Wadi El Rayan, and Wadi El Hitan, Fayum governorate
- Supervision on two master theses related to the industrial application of mineralogy
- **Assistant Lecturer** September 2009- May 2014
Geology Department, Cairo University, Egypt
Duties:
 - I taught different laboratories for 4 years :
 - Crystallography (1st year), Introduction to rocks and minerals (1st year), rocks and minerals (2nd year geophysics), Optical mineralogy (2nd year), Rock-forming minerals (2nd year), Igneous Petrology (3rd year), Metamorphic Petrology (3rd year), Principles of Geochemistry (3rd year), Precambrian rocks of Egypt (3rd year), Laboratory and analytical techniques (3rd year), Structural mineralogy (3rd year), Advanced geochemistry (4th year), Economic geology (4th year). Clay mineralogy (4th year)
 - I have organized a field trip for my PhD thesis work to the area of Nile delta branches (Rosetta and Damietta), North Egypt.

- **Lab instructor** December 2002-August 2009
Geology Department, Cairo University, Egypt
Duties:

- I taught the labs of the following courses, Crystallography (1st year), Introduction to rocks and minerals (1st year), rocks and minerals (2nd year geophysics), Rock-forming minerals (2nd year), Structural mineralogy (3rd year), optical mineralogy (2nd year), Igneous Petrology (3rd year), Principles of Geochemistry (3rd year), Precambrian rocks of Egypt (3rd year), Advanced geochemistry (4th year).
- I have organized a field trip for my Masterthesis work to the area of Dakhla – Kharga land stretch in the New Valley Governorate in Upper Egypt

III- EDUCATION

Ph.D. in Earth Sciences(Mineralogy-Petrology-Geochemistry)

summer2014

Cairo University, Giza, Egypt

Thesis Title “Environmental geochemistry of bottom Nile sediments of Rosetta and Damietta branches of Egypt”

Course work included: Advanced clay mineralogy, Advanced geochemistry, Advanced mineralogy, Advanced sedimentary petrology, Advanced environmental geochemistry, Analytical techniques in geoscience, industrial minerals and rocks, selected topics (chemostratigraphy)

M.Sc. in Geology (Mineralogy-Petrology)

summer 2009

Cairo University, Giza, Egypt

Thesis Title “Environmental Applications of Clays of Quseir Formation from Kharga-DakhlaLandStretch, Western Desert, Egypt”

B.Sc. in Geology

Winter 2002

Grade: Very Good with honor

IV- Academic Awards and fellowships

- 2014: Dr. Taha El Ashri award for the best PhD Thesis in geology, Cairo University, Egypt.
- 2012: ICDL certificate Version 4.0
- 2010: Graduate Research Challenge Fund (GRCF) award for fund of PhD Thesis, Faculty of Science, Cairo University, Egypt.
- 2009: Dr. Taha El Ashri award for the best M.Sc. Thesis in geology, Cairo University, Egypt.
- 2008: Award certificate from the Eight Conference of Geology of the Arab World (GAW 8)
- 2006: Award of Training Course in the National Research Center (NCR) on the treatment of waste water from the heavy metals

- 2002: Abu Khadraaward for the best degree in Sedimentary petrology,geology Department, Cairo University Egypt.
- 2002: Schlumberger award for special students in Geology and Chemistry- Geology Undergraduate Students, Cairo University, Egypt.

V- Research and Laboratory Experience

- Practice of some techniques in sedimentology (Sieve analysis, Pipette method)
- Practice and training on Heavy mineral separation (heavy liquid)
- Practice and achieving Clay fraction separation by pipette method and centrifuge
- Preparation of heavy minerals mount slides
- Achievement of some engineering measurements Atterberg limits (liquid limit, plastic limit), Swelling test.
- Determination of some hydrological measurements (permeability and porosity)
- Description of thin sections of rocks and minerals
- Identification of minerals from X-ray diffraction pattern
- Interpretation of chemical analyses from X ray fluorescence
- Writing of thesis(Master and PhD)
- Writing and publishing scientific papers
- Working on graphic software (Photoshop and illustrator cs6)

VI- Special courses and workshops

- **Scientific courses:**
 - 2016: Award of training course for design of electronic course in the Electronic Learning center of Cairo University
 - 2011: Award of Training Course for design of Academic course in the Training Unit of the Faculty of Science Quality Unit
 - 2010: Award of Training course for " statistical data analysis and statistical package SPSS" at the Institute of Statistical studies and Research
 - 2006: Award of Training Course in the National Research Center (NCR) on the treatment of wastewater from the heavy metals

- **Internships (Personal development courses):**

2024	Essentials of Integrated Education	(FLDC, Cairo University)
2018	Managing research team	(FLDC, Cairo University)
2016	Change management	(FLDC, Cairo University)
2015	Competing for research fund	(FLDC, Cairo University)
2015	Creative thinking	(FLDC, Cairo University)
2014	Credit hour system	(FLDC, Cairo University)
2014	University Management	(FLDC, Cairo University)
2011	Student evaluation	(FLDC, Cairo University)
2011	Conference organization	(FLDC, Cairo University)
2011	Legal and financial aspects university environment	(FLDC, Cairo University)
2010	Recent trends in teaching	(FLDC, Cairo University)
2010	Code of ethics	(FLDC, Cairo University)
2010	Quality standards for teaching	(FLDC, Cairo University)
2009	Time and meetings management	(FLDC, Cairo University)
2009	Research ethics	(FLDC, Cairo University)
2009	International publishing of research	(FLDC, Cairo University)
2009	Communication skills	(FLDC, Cairo University)
2008	Using of technology in teaching	(FLDC, Cairo University)
2008	Effective presentation	(FLDC, Cairo University)

VII- Publications

Research Papers in peer-reviewed international journals

- **El Maghraby.AM.,El Kammar.AM.,andMabrouk.MS(2011):** Potentialityof clays in the Kharga-Dakhla land stretch as a natural landfill liner in a hyper-arid region.
AAPG.Environmental Geosciences,v. 18, no.2.pp.101–118
- **Ismaeel, Sameh Hamed, Mabrouk, Mohamed Sayed, Ali, Abd-Almotalib Ali, Abn-Elwalead, Khaled (2017):** Synthesis and characterization of bentonite nanocomposite from Egyptian bentonite clay, international journal of nanotechnology and allied sciences, vol.1, issue1, pp 16-26

- **ElKahawy Ramadan M., Mabrouk Mohamed S., (2023):** Benthic Foraminifera as bioindicators for the heavy metals in the severely polluted Hurgada Bay, Red Sea Coast, Egypt. Environmental science and pollution research:30:70437-70457
- **Mohamed A. Hamdan, Rounaq H. Badawy, Refaat A. osman, Fekri A. Hassan , Roger j. Flower, Mohamed S. Mabrouk, Adel M. Afify.2024:** Mineralogy and geochemistry of Late Pleistocene-Holocene lacustrine sediments in the Faiyum depression , Egypt: implication of paleoclimate. Arabian journal of Geosciences 17:33
- **Yasser Abd El- Rahman, Khamis Mekki, Li-Guang Wu, Xian-Hua Li, Mohamed Mabrouk.2024:** The Khashir gabbro – tonalite suite in the Eastern Desert of Egypt: A root of a rifted Tonian oceanic arc system in the northwestern tip of the accretionary Arabian-Nubian orogen. Lithos, 107723
- **MA Hamdan, R H Badawy, AS. Zaky, R osman, FA Hassan, RJ Flower, A.M Fify, M S Mabrouk, 2024:** Depositional history of the Holocene Faiyum paleolake (Egypt) inferred from a petrographic analysis. Quaternary International, 109588
- **Moataz El-Shafeiy, Mohamed A Hamdan, Daniel Bergel, Jörn Peckmann, A. Walid Karimi, Amr S. zaky, Rojer J. Flower, Fekri Hassan, Hendrik Vogel, Flavi S. Anselmetti, Mohamed Mabrouk. 2024:** Holocene evolution of Lake Faiyum (Egypt): Insights from elemental and molecular proxies. Paleogeography, paleoclimatology, paleoecology, 112677

VIII- Computer and language skills

- Arabic (mother language),
- English (writing and reading: very good, conversation: medium).
- Windows 7, 10 office 10, 365 (Word, Excel, PowerPoint).
- Adobe Illustrator CS6, Adobe Photoshop CS6(experienced)
- Statistical programs SPSS, Minitab.(experienced)
- Geochemical plotting software (Minpet).
- ArcGIS10.2 (basics).
- Envi5.1 (basics).
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IX- Membership in professional society

- Professional member in the Geological Society of Egypt (2015 till now)
- Student member in AAPG from 2003 till 2010

X- References

- Prof. Mohamed Abd El Hamed El sharkawi
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