

CURRICULUM VITAE



Name: Essam Abd El-Motaal Mohamed

Sex: Male

Address: Geology Department, College of Science, KSU,
P.O. Box 2455, Riyadh 11451.

E-mail address: emohamed@ksu.edu.sa & essam88a@hotmail.com

Educational record:

- B.Sc. in Geology (very good with honor degree), Al-Azhar University, Cairo, Egypt, 1983.
- Diploma in Geological Survey using Remote Sensing techniques, ITC, Enschede, the Netherlands, 1989.
- M.Sc. in Geology entitled “ Neotectonic studies on El-Faiyum area, Western Desert, Egypt”, Al-Azhar University, Cairo, Egypt, 1990.
- Ph.D. in Geology entitled “Structural studies on the sedimentary rocks in the Red Sea coastal plain between lat. 25° 45' and 26° 00' N., Egypt”, Al-Azhar University, Cairo, Egypt, 1993.

Position: Professor of Structural Geology and Plate tectonics, Geology and Geophysics Department, College of Science, KSU, P.O. Box 2455, Riyadh 11451. .

Experience:

- Visiting Professor taught a graduate course entitled “Neotectonics” in the Earth and Atmospheric Sciences Department, Saint Louis University, St. Louis MO, USA, , through the Fulbright scholarship, April-December, 2002.
- Shared a team as Structural geologist and expert to analyze the geological and neotectonic deformation in a project entitled "

Natural hazards and environmental geology, El-Faiyum area, Egypt", sponsored by Saint Luis University, USA and the National Authority of Remote Sensing and Space Sciences, Egypt.

Areas of interest:

- Structural architecture and tectonic evolution of the Red Sea Rift (specially its coastal plain).
- Structures of the Syrian Arc System.
- Tectonics and morphotectonics of the Gulf of Suez.
- Neotectonics and seismotectonics of the Gulf of Suez, Gulf of Aqaba and the Nile Delta.
- Using Remote Sensing techniques in studying the structures.
- Assessment of the natural hazards and Land-use classification .

Membership of scientific and professional societies:

- Member of the Geological Society of Egypt, Egyptian Syndicate of Scientific Workers, Egyptian Remote Sensing Society and Egyptian-Dutch Friendship Society.
- Fulbright scholar, USA.

Publications:

- 1- **Abd El-Motaal E., Tolba M. E. and Orabi A. A. (1997):** Tectonostratigraphic and Morphotectonic Evolution of Bernice Area, Red Sea Coast, Egypt. Jour. Fac. Educat. Ain Shams Univ. No 22, pp. 627 -638.
- 2- **Abd El-Motaal, E. (1998):** Tireifia pull-apart basin structure due to dextral wrench tectonics in Cairo-Suez district, Egypt. Jour. Fac. Education, Ain Shams Univ., Vol. 23, pp. 1-14.
- 3- **Abd El-Motaal, E. (1999):** Neotectonic and morphotectonic implications of the Nile Delta basin, Egypt. Z. Geomorph. N. F., Berlin. Stuttgart, Suppl.-Bd., 118, pp. 165-181.
- 4- **Abd El-Motaal, E. and Ramadan, T. M. (1998):** Morphotectonics of Gabal Zeit-Esh Mellaha region (Eastern Desert, Egypt) using remotely sensed data. Egypt. Jour. Remote Sensing & Space Science, Vol. I, pp. 265-280.
- 5- **Abd El-Motaal, E. and Sadek, R. S. A. (1998):** Evolution of rift tectonics in west central Sinai area, Egypt. Al-Azhar Bull. Sci., Vol. 2, pp. 733-749.

- 6- **Abd El Motaal, E. and Tolba, M. E. (1998):** The influence of rift tectonics on El Qaa plain area, Southwest Sinai, Egypt. 11th Symp. Phaner. Develop., Egypt. pp. 1-19 April 1998.
- 7- **Abd El-Motaal, E. and Orabi, A. A. (2000):** Neogene structural development of Abu Ghusun area, Red Sea coastal plain, Egypt. Al-Azhar Bull. Sci. Vol. 11, No. 2 (Dec.), pp. 161-175.
- 8- **Abd El-Motaal, E. and Kusky, T. M. (2003):** Tectonic evolution of the intraplate S-shaped Syrian Arc fold-thrust belt of the Middle East region in the context of plate tectonics. 3rd International Conference on the Geology of Africa, Assuit, Egypt, Vol. (2), pp. 139-157.
- 9- **Abd El-Motaal, E. and Kusky, T. M. (2003):** Structural analysis and neotectonic deformation features in Wadi El-Natron area in north Western Desert, Egypt. 3rd International Conference on the Geology of Africa, Assuit, Egypt, Vol. (2), pp. 159-172.
- 10- **Abd El-Motaal, E. (2004):** Assessment of active tectonics and neotectonic futurity of southwest Cairo and its neighborhood, Egypt. Jour. Fac. Education, Ain Shams Univ., Vol. (29), pp. 423-446.
- 11- **Abd El-Motaal, E. (2004):** Structural architecture and tectonostratigraphy of Gharamul-Dara area, western side of the Gulf of Suez extensional rift, Egypt. Jour. Fac. Education, Ain Shams Univ., Vol. (29), pp. 401-422.
- 12- **Abd El-Motaal, E. and Kusky, T. M. (2004):** Assessment of neotectonics and land-use classification along the Red Sea coastal plain from Safaga to Marsa Alam, Egypt. Jour. Fac. Education, Ain Shams Univ., Vol. (29), pp. 375-399.
- 13- **Sadek, R. S. A. and Abd El-Motaal, E. (1999):** Structural setting and tectonostratigraphic evolution of the southwestern part of the Gulf of Suez. 1st Intern. Conf. Geology of Africa, Assiut Univ., Assiut, Egypt, Vol. I, pp. 331-352.
- 14- **Tolba M. E.; Abd El-Motaal, E.; Al-Alfi, Z. S. and Bekhit, M. H. (2002):** Geo-environmental studies on the area between latitudes 26° 00' and 26° 30', central Eastern Desert, Egypt using remote sensing data and GIS. 13th symp. Phanero. And Develop. in Egypt, Al-Azhar Univ., Geology Dept., 23 May 2002.
- 15- **Tolba, M. E.; Orabi, A. A.; Abd El-Motaal, E. and El-Sawy, E. K. (2001):** Geo-environmental studies of North Sinai area using Remote Sensing Data, Meteorological data and field control. The Meteorological Research Bull. Vol. 16 (January 2002) pp. 366-386.
- 16- **Orabi, A.A., Abd El-Motaal, E. and El-Sawy, E.K. (2005):** Structural characteristics of Gabal El-Zeit-Esh El-Mellaha area and their relation to Red Sea Rifting. Proceeding of the 5th Assiut International Scientific Conference, pp. 31-42.
- 17- **Bekhit, M.H., El-Sawy, E.K., El-Fouly, H.E., Fathy, M., Abd El-Motaal, E. and Khalil, R.M. (2011):** Subsurface structural and petrophysical study on Karama field, Western Desert, Egypt. Al-Azhar Science Bull., v. 15, no. 2 (Dec.), pp. 30-50.
- 18- **Almadani, S., Al-Amri, A.M., Fnais, M.S., Abdelrahman, K., Ibrahim, E. and Abd El-Motaal, E. (2014):** Evaluation of geotechnical parameters for urban site in southern Khamis Mushait city, southwest Saudi Arabia, using seismic refraction method. Arab J. Geosci., DOI 10.1007/s12517-014-1615-4.

- 19- **Al-Harbi, M., Ibrahim, E., Al-Amri, A.M., Abdelrahman, K., Abd El-Motaal, E., and Andreae, M. O. (2015):** Structure of the Yanbu suture zone in Northwest Saudi Arabia inferred from aeromagnetic and seismological data. Arab J. Geosci., 8:8741–8752, DOI 10.1007/s12517-015-1814-7.
- 20- **Hewaidy, A. A., Abd El-Motaal, E., Sultan, S. A., Ramadan, T. M., El-Khafif, A. E. and Soliman, S. A. (2015):** Groundwater exploration using resistivity and magnetic data at the northwestern part of the Gulf of Suez, Egypt. Egyptian Journal of Petroleum, 24, 255-263.