



7- Geomagnetism and Geoelectric Department

7-2 Geoelectric and Geothermic Laboratory

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* Scientific Publication (National& International)

1-The mineral exploration of the iron ore deposits in the eastern Aswan Egypt, by using geophysical techniques. Submitted to Arabian Journal of Geosciences. Mahmoud M. Mekki, Ahmed I. Qutb, Ayman T. Ismail, Mohamed A. Al Deep, Sultan A. Sultan, Usama Massoud and Abbas M. Abbas

2-Structural lineament domain analysis and drainage pattern mapping to infer groundwater flow paths in Wadi Gerafy area, Naqab desert, East Central Sinai, Egypt. Submitted to NRIAG Journal of Astronomy and Geophysics. Mohamed Mebed, Hassan El-Shayeb, Usama Massoud, Hamdy El-Desoukey, Hamada Salama

* Reviews of Papers (National& International)

1-Geophysical investigation for groundwater development and post foundation studies. A case study of Phase 1 and Phase 2, federal University Oye Ekiti. NRIAG Journal of Astronomy and Geophysics.

2-Principles of Electrical Resistivity Techniques. Springer Book Proposal Form. Editor: Smith Ahram Chae

* Conferences, Scientific Missions & Workshops

1- EGS 2019 (Attendance): Egyptian Geophysical Society. The 34th Annual Meeting -March 2019.

2-UNESCO Work shop(Attendance +Presentation):Short course on groundwater management and cultural heritages. UNESCO Office-Cairo, EGYPT and NRIAG -Helwan. July 2019. Presentation Title:Electromagnetic Methods: Principles, Applications and Case Studies

3- IUGG19-3754 (Abstract):Title: The Mineral Exploration of the Gold-Copper ore Deposits in the South Eastern Desert, Egypt.

4- EGU General Assembly - EGU2019-2565, 2019 (Abstract): Title: Integrated Geophysical Prospecting of the Copper-Nickle Ore Deposits at Abu Swayel area, South Eastern Desert, Egypt.

5-28 Schmucker-Weidelt Colloquium for Electromagnetic Depth Research 23-27 September 2019, Haltern Title:Groundwater Assessment of the area between Belbies and Tenth of Ramadan Cities using geophysical tools.

* Projects

1-STDF: ITALY – EGYPT CALL FOR JOINT EXCHANGE VISIT Title: Investigation of groundwater occurrences and the potential sources for groundwater pollution by joint application of geophysical and hydrochemical approaches: A case study of some urban cities West of Ismailia, Egypt. (PI)

2-STDF Project Virtual Reality and lowering of subsurface water level at Hawara Archaeological site(Member).

* Consultancy

1-Investigation of Gold Deposits at Um Garayat area, South Eastern Desert, Egypt by Transient Electromagnetic (TEM) Survey.

2-Hydrogeological investigation at El-Fustat area, Old Cairo-Egypt.

3-Geophysical investigations for detection and lowering of subsurface water level at Hawara archaeological site..

* Supervision of M.Sc. / Ph.D.

1-Ground water Assessment in the area between 10th of Ramadan and Belbies cities, using geophysical techniques for Developmental Purposes. Ph. D. Thesis (Fac. Sci. Mansoura University).

2-Geophysical, remote sensing and geographic information system studies for mapping the surface and subsurface geological structure controls on the aquifers at Wadi Gerafy area, East Central Sinai, Egypt. Ph. D.