Curriculum Vitae

Professor Dr. Mahmoud Mohamed Senosy

More than 30 year experinces in applying surface and borehole geophysical methods in:-

1- **Shallow investigation**
   - a- Groundwater exploration and evaluation
   - b- Engineering and environmental purposes
   - c- Buried utilities and man-made features
   - d- Archeology
   - e- Ore mineral exploration

2- **Deep investigation**
   - a- Petroleum and hydrocarbon exploration
   - b- Deep seated geologic structures
   - c- Crustal deformation and tectonic

ADDRESS

Geology Department, Faculty of Science, Assiut University, Assiut, 71516, Egypt
Tel. (home):002- 088-2297717,
Fax: 002-088 – 2342708,
Mobile: 00201113448682
E-Mail: mmsenosy@yahoo.com

PERSONAL DATA

First name: Mahmoud
Family name: Senosy
Born: 02/ 07/ 1962
Family status: married with three sons
Citizenship: Egyptian

UNIVERSITY EDUCATION

1994	Assiut University Assiut, Egypt PhD, Geology Department,. Assiut University
1989	Assiut University Assiut, Egypt M.Sc, Geology Department,. Assiut University
1984	Assiut University Assiut, Egypt B.Sc, Geology Department,. Assiut University

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ACADEMIC DEGREE

1994 Ph. D. degree in applied geophysics

Thesis title: "***Surface and Subsurface studies in the area between Tema and El-Balyana, Nile Valley, Egypt***"

Dissertation title: Geology Department, Faculty of Science, Assiut University

1989 M. Sc. degree in applied geophysics.

Thesis title: "***Geological and Geoelectrical studies in the entrance of Wadi El- Mathula area, Eastern Desert, Egypt***"

Dissertation title: Geology Department, Faculty of Science, Assiut University

1984 B. Sc. in General Geology

Grade: "Distinction"

Dissertation title: Geology Department, Faculty of Science, Assiut University, Assiut, 1984.

PROFESSIONAL APPOINTMENTS

2007 - Present Professor of applied geophysics, Geology Dept, Assiut Univ. .

2005– 2007 Professor of applied geophysics, Geology Dept. Tazi Univ. (Yemen)

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2004 - 2005 Associated Professor of applied geophysics, Geology Dept. Tazi Univ. (Yemen)

2000 – 2004 Assoc. Professor of applied geophysics, Geology Dept. Assiut Univ.

1994 – 2000 Lecturer of Geophysics, Geology Dept. Assiut Univ.

1989 – 1994 Assistance lecturer of geophysics, Geology Dept. Assiut Univ.

1984 – 1989 Demonstrator in Geology Dept. Asssiut Univ.

ACADEMIC TRAINING

Summer 2010 Institute for Geosciences, Halle Wittenberg, Germany
Groundwater flow modeling

Summer 2008	Institute for Geosciences, Halle Wittenberg, Germany Engineering geology and GIS
April 2008	Geology Department, Assiut University, Egypt GIS basics and applications
December 2007	Geology Department, Assiut University, Egypt Remote sensing and GIS applications
1997	Institute of surveying, Cairo, Egypt Gravimetry
1993	York University, United Kingdom Application of Remote sensing and GIS in environmental management

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EXPERIENCES AND COMMUNITY SERVICES

2009 – 2010

Supervising in GPR surveying which carried out on the new location of Sohag university (El-Kawamell area) to study the vertical and aerial distribution of joint and voids in the foundation beds.

2008 – 2009

Consultant of Mohamed Bin Laden Company (Geology department) in geological and geophysical investigation of groundwater project in the campus of King Saud University, Saudi Arabia and supervising on the drilling and developing of the drilled groundwater wells.

2007

Geological and Geophysical studies on the northern sector of Saudi Arabia to define locations for Ballast and Sub-ballast materials needed for the railway path that will crossing the northern sector of the Kingdom. (in cooperation with the Geology Department of Mohamed Bin Laden Company)

2003

Research member in the team of studying and evaluating the Natural Land Resources (building materials such as gravel, sands and stones; ornamental stones and groundwater) of Assiut Governorate. 4

2001-2002

Research member in the team of studying and evaluating the Natural Land Resources (building materials such as gravel, sands and stones; ornamental stones and groundwater) of the New Valley Governorate.

2000-2001:

Research member in studying suitability of a desert site in Hurgada City for establishing new settlements from the geophysical point of view using electric, seismic and aeromagnetic methods.

1992-present:

Research member in investigation and evaluation of the ground water aquifer of Wadi El Assiuti and supervising on drilling and development of the ground water wells in the area for different dealers (Business man society of Assiut, Assiut University, Auon Company, and others individuals)

1995-2002:

Research member in investigation and evaluation of the ground water aquifer of Wadi Qena and supervising on drilling and development of the ground water wells in the area

1996- 2004:

Research member in investigation and evaluation of the ground water aquifer of Wadi El-Nukra, Kom Umbo, Aswan and supervising on drilling and development of the ground water wells in the area

1996- present:

Supervisor on drilling, construction and management of ground water wells in different locations allover Egypt

1998-1999:

Research member in studying suitability of the proposed desert site of the new Assiut city for constructions from the geophysical point of view using electric, seismic and aeromagnetic methods.

1995-1997:

Research member in geotechnical studies project in El-Salam suburb and Hebis Temple, El-Kharag area, Egypt using ground magnetic, electric and seismic methods

1994-1997:

Principal and co-principal investigator in four projects for ground water exploration and hydrogeologic setting of Assiut Cement Company Farm and the surrounding areas.

1995-1996:

Research member in studying the problem of cracking and brook down of floors and walls of the Hibis Temple, El-Kharga city and suggesting the steps of solving using surface geophysical techniques and geotechnical tests.

1995-1996:

Research member in studying suitability of the proposed site of transporting Hibis Temple which is one the important archeological feature in Egypt from the geophysical point of view.

1985-1995:

Principal, co-principal investigation and Research member in more than twenty local ground water exploration projects using electric, gravity and aeromagnetic methods.

1992-1993:

Research member in the project of investigation and evaluation of the ground water aquifer of the farm of Egyptian Company of Sugar and Distillation and supervising on drilling and development of the groundwater wells in the area

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MEMBERSHIP OF PROFESSIONAL ORGANIZATION AND SOCIETIES

1- The Egyptian Society of Geology
2- The Egyptian Society of Geophysics
3- The Egyptian Society of Remote sensing
4- The Egyptian syndicate of scientific professions
5- The Egyptian Society of petrophysics

LANGUAGE SKILL
Arabic: mother tongue
English: very good

COMPUTER SKILLS AND SOFTWARE

GIS	ArcGIS 9.2
DEM & Gridding	Surfer, 3D-DEM
Raster & Drawing	CorelDraw, CorelPhotoPaint, PaintShop, illusterator,
Word & Sheet processing	Microsoft Office
Operating Systems	DOS and Windows
Geophysical software	Geoesoft, grav&mag 2& 3D modeling, RES2DINV & RES3DINV, IP2WIN, Zohdy, WinSeiv, Rsix, and other Resistivity software
Hydrogeological software	GWW, Aquifer test, AChem

SUPERVISION OF THESES

Attained M. Sc. Theses

1- Geotechnical studies on El-Salam suburb area, El-Kharga, New Valley, Egypt: By: **Gamal Z. Abdel All**

2- Geoelectrical and hydogeological studies on the area between Mir and Bani Adi Nile Valley, Egypt:

By: Mohamed R Shaker

3- Geoelectrical and hydrogeological studies on the area between Bolaq and Baris, New Valley, Egypt:
By: **Ayman A. Ahmed**

4- Geophysical studies on the Southwestern part of Western Desert, Egypt
By: **Mohamed A. Mohamed**

5- Geophysical studies on two archeological sites in Sohage and Luxor provinces
By: **Salem M**.

6- The tectonic origin of the Qena Bend, Nile Valley, Egypt
By: **Wael F. Hassan**
7- New Approaches on the field procedure and interpretation of the earth resistivity method
By: **Happy Slah**

M. Sc. Theses under preparation:

1- Application of geophysical methods in studying the continental shelf area, Arab Gulf
By: **Mamdouh Ali**
2- Subsurface and surface studies on the area between el-Farafa and El-Dakhala oases using remote sensing, gravity and well logging data
By **Mohamed kamal**

Attained Ph. D Theses

1- Ground water evaluation in the Nile Valley from Assiut to Aswan by using geophysical, hydrogeological and hydrogeochmeical data
By: **Ali Hamdan**

2- Geophysical studies on the areas around El-Madinah El-Monawara, Saudi Arabia
By: **Medhat N. Omran**
3- Paleontological and geophysical studies on the Palecence – Eocene boundary in southern Egypt:
By: **Ayman A. Mohamed**

Ph. D. Theses under preparation:

1- Geothermal evaluation of the north western desert, Egypt using geophysical and borehole temperature data
By : Happy Salah

PUBLICATIONS

1- Ahmed M. Sefelnasr, ***Senosy M. M***. and Rasha Abd El-Latef, (2013): Hydrogeochemical characteristics and evolution of groundwater quality of the Quaternary Aquifer, Dairout District, Assiut, Egypt> 7 International conference on the Geology of Africa, 24-26 Nov. 2013 Assiut Univ. Egypt. In press.

2- Mohamed, H. S; ***Senosy, M. M*** and Adel Aal, G. .(2013): upgrading of inverse slop method for quantitative interpretation of earth resistivity measurements. Journal of Arabian Geosciences, Received: 6 March 2013 /Accepted: 8 August 2013

3- Mohamed, H. S; ***Senosy, M. M*** and Adel Aal, G. .(2013): upgrading of cumulative resistivity method for quantitative interpretation of earth resistivity measurements. Journal of engineering and environment. In press

4- ***Senosy, M. M***., Youssef, M. M. and Abdelzaher, M. (2013): Sedimentary cover in the South Western Desert of Egypt as deduced from Bouguer gravity and drill-hole data. Journal of African Earth Sciences 82 (2013) 1–14

5- Ali M. Hamdan & ***Mahmoud M. Sensoy*** & Mali S. Mansour, (2012: Evaluating the effectiveness of bank infiltration process in new Aswan City, Egypt. Arab J Geosci 6: p. 4155–4165

6- ***Senosy, M. M*** and Abdel-Sabour, A. , (2012): Geophysical logging and Magnetic Susceptibility studies on the Dababiya Quarry Corehole, Dababiya Natural Park, southern Nile Valley, Egypt**.** *Stratigraphy, vol. 9, nos. 3–4*.

7- Mohamed Abdel Zaher, ***M M Senosy***, M M Youssef, S Ehara (2009) Thickness variation of the sedimentary cover in the south western desert of Egypt as deduced from Bouguer gravity and drill-hole data using neutral network method Earth Planets Space 61: 6. 659-674

8- Abdulqader, A. A. and ***Senosy, M. M***., (2009): Assessment of groundwater situation in Mawzaa area, Tihama plain, Yemen using satellite images. In press

9- Mohamed Abdel Zaher, ***M M Senosy***, M M Youssef , Sachio EHARA: (2008) Surface Studies on the South Eastern Part of the Western Desert, Egypt by Using Remote Sensing Technique In: Proceedings of International Symposium on Earth Science and Technology 2008 267-274 Kyushu University Fukuoka, Japan

10- ***Senosy, M. M***. and Abdel-Sabour, A., (2008): Geophysical studies on the Paleocene – Eocene boundary at Dababia and Gabel El-Agoz, Upper Egypt.

Geology Department, Assiut University, Assiut, 71516, Egypt.The second Conference for Young Scientists Basic Science & Technology, Assiut, October 18 – 19, 2008

11- Abdulqader, A. A. and **Senosy, M. M**., (2008): Delineation of saltwater intrusions in El-Makha area, Red Sea coast, Yemen using electrical resistivity measurements. Proc 5 th Inter. Sym. On Geophy., Tanta, Egypt (2008), p. 39-53

12- Alkadasi, A. and **Senosy, M. M.,** (2008): Application of ground magnetic in investigating of some buried archeological fearures at Duhra area, southwest of Taiz, Yemen.Assiut Univ. J. of Geology, 37(2), p-p 143 -158. 8

13- Salim, S. A.; **Senosy, M. M** and Hamdan, A. M., (2007): Emprical relationship between geophysical and hydraulic parameters of the Quaternary aquifer at downstream area of Wadi Qena, Upper Egypt. Accepted for presenting and published in the 4 th International conference of the Geology of Africa, Assiut University, Assiut (October 2007).

14- **Senosy, M. M**. and Khalil, M. F., (2006): Geoelectrical studies for groundwater exploration in the area around Gebel Abraq, Sothern Eastern Desert, Egypt. . Fac. Sci., Assiut Univ. 35(1-F). P. 100-1113

15- **Senosy, M. M**.; Salim, S. A. and Hamdan, A. M., (20057): Emprical relationship between geophysical and hydraulic parameters of the Quaternary aquifer at Wadi El-Assuiti, Eastern Desert, Egypt. The proceedings of the GRMENA II international conference Cairo, 2007, p- 3-31.

16- Ouda, Kh., ***Senosy, M. M***., and Abdel Sabour, A., (2004): The Dababiya Quarry Beds and their significance as a marked litho- and biostratigraphic unit at the base of Eocene in the Kharga Oasis, Western Desert, Egypt. Fifth international conference on Climate and Biota of the Early Paleogene: CBEP V, February 8-12, 2004, Luxor, Egypt

17- ***Senosy, M. M.***, (2004): Application of Ground magnetic in detection of buried cemeteries in an archeological site, El-Kharga district, Western Desert, Egypt Bull. Fac. Sci., Assiut Univ. 33(1-F). P. 115-125, 2004

18- ***Senosy, M. M.*;** Dahab, K. ; Khalil, M. F. and Ebraheem, A. M.,(2004): Studying the environmental impact of groundwater level rising using the 2D imaging earth resistivity and hydrogeological methods in Markz Badr District, West of the Nile Delta, Egypt. Proc. 3rd International Symposium on Geophysics,Tanta (2004), P. 520 – 540, 2004

19- ***Senosy, M. M***., (2003): Application of density contrast stripping in studying subsurface geologic structures: A case study, Ek-Kharga Oasis, Western Desert, Egypt. Egyptian Journal of Geology, V. 47/1, P. 387 – 404.

20- ***Senosy, M. M***.; Youssef, M. M. and Mohamed, A., (2003): Thickness variation of the sedimentary cover in the South Western Desert of Egypt as deduced from Bouguer gravity and drill hole data. Presented in the 3 rd International symposium that hold in Tanta University, Egypt and (in press).

21- Kahlil, M. F; ***Senosy, M. M***. and Ebraheem, A. M, (2003): Application of 2D imaging resistivity methods for detecting the hydrogeological conditions of the coastal area between Marsa Matruh and Ras El-Hikma, Mediterranean coast, Egypt. N. Jb. Geol. Palaont. Abh. 229(2), P. 255-279.

22- Bakheit, A. A., ***Senosy, M. M.***. and Ibraheem, H. A., (2003):Ground magnetic survey on some basaltic bodies in Gebel Gebeil and west of El-Bahnasa areas, Western Desert, Egypt. Proceedings of the 3rd International Conference on the Geology of Africa (Dec. 2003), Assiut - Egypt. Vol. 2, p. 531 – 545. 9

23- Salim, S. A; ***Senosy, M. M***. and Hamdan, A. M., (2003): The impact of desert reclamation on the groundwater quality in the Quaternary aquifer system, Sohage governorate, Upper Egypt. Proceedings of the 3rd International Conference on the Geology of Africa (Dec. 2003), Assiut - Egypt. Vol. 2, p. 37 – 48.

24- ***Senosy, M. M*** and Ebraheem, A, M. (2002): Incorporating auxiliary geophysical data into ground-water fellow parameters estimation of the Quaternary aquifer in the desert area northwest of Assiut City, Egypt. Bull. Fac. Sci. Assiut Univ. 31(2-F), p. 133-150.

25- ***Senosy, M. M*** and Khalil, M. F, (2001): Impressment of drap aeromagnetic data to release some ideas about the tectonic origin of the ophiolite sequences in area around Gabal Urf Umm Arka and Gabal Abu Dahr, South Eastern desert, Egypt. Bull. Fac. Sci. Assiut Univ. 31(2-F), p. 165-188.

26- Omran A. ; ***Senosy, M. M***. and Soliman, M. A., (2001): Geological and geophysical investigation or northern El-Ahiaa new settlement site, Hurghada, Red Sea, Egypt. Proceedings of the 7th International Conference on mining, Petroleum and Metallurgical engineering (MPM'7 – Assiut, Egypt – 10-12 Feb. 2001). P. 54-71.

27- ***Senosy, M. M.***; Riad, S.; Youssef, M. M. and Abdel AAl, G. Z., (1999): Integration of earth resistivity methods in geotechnical studies on El-Salam

suburb area, Kharga, Egypt. Proceedings of 1st. international conference on the Geology of Africa. Vol. I, P. 579 - 603

28- ***Senosy, M. M.,*** (1998): Geologic implication of the aeromagnetic data of the area around Gabal El- Salai , Southern Eastern Desert, Egypt. Bull. Fac. Assiut Univ. 27(2-F), p. 49-72.

29- ***Senosy, M.,*** Omran, A., Ibraheem, H. A., and El-Hussiani, A. H., (1998): Geophysical studies on the proposed site of the new Assiut City, entrance of wadi El-Aassiuti area, Eastern Desert, Egypt. Africa/ Middle East Second International Geophysical Conference and Exposition, Cairo (17-19 Feb. 1998)

30- ***Sensoy, M. M,*** (1998): Application of electrical resistivity method in groundwater evaluation of Wadi El-Saadia area, Northwest of Idfu, Egypt. Bull. Fac. Assiut Univ. 27(2-F), p. 121-145.

31- ***Senosy, M. M,*** (1998): An electrical resistivity study to determine characteristic of near-surface layers in the present and the new proposed sites of Hibis Temple, New Valley, Egypt. Bull. Fac. Assiut Univ., 27(2-F), p. 73 - 94.

32- ***Sensoy, M. M.,*** (!997): Groundwater possibility in some desert areas of Assiut Province, Egypt. Bull. Fac. Sci., Assiut Univ., 26(2-F), P. 169-187. 10

33- ***Senosy, M. M*** , (1996): Verification of Qena - Assiut sedimentary basin - Middle Egypt from gravity data. Egyptian Journal of Geology, 41/2B: P. 797-816.

34- ***Senosy, M. M.,*** (1995): Schlumberger soundings on the area northwest of Assiut City, Middle Egypt. El-Sharhan et. al. (eds): Quaternary Desert and Climate Change. Balkima/ Rotterdam, P. 769-479. Proceedings of the International conference of Quaternary Desert and Climatic change. Al-Ain/ United Arab Emirates/ 9-11 December 1995

35- Ebrahim, A. M.; ***Senosy, M. M.*** and Dahab, K., (1997): Geolelectrical sounding for delineating ground water contamination due to salt water intrusion in the Northern part of the Nile Delta, Egypt. Ground water V. 35, N. 2, P. 216-222.

36- Youssef, M. M.; Ibrahim, A. A.; Bakheit, A. A. and ***Senosy, M. M***., (1994): Surface and Subsurface tectonic pattern of Sohag region, Middle Egypt. Bull. Fac. Sci., Assiut Univ., 23 (1-F), P. 317-360.

37- Bakheit, A. A.; Ibrahim, A. A.; Youssef, M. M. and ***Senosy, M. M,*** (1994): Interpretation of Geo-Potential field anomalies of the area around Sohag, Middle Egypt. Bull. Fac. Sci., Assiut Univ., 23 (1-F), P. 361-385.

38- Bakheit, A. A.; Ibrahim, H. A.; Omran, A. A.; Riad, S. and ***Senosy M. M***, (1993): Application of resistivity method to study ground water potentialities on a part of the entrance of Wadi El-Assuiti, Eastern Desert, Egypt. Qatar Univ. Sci. J., 13 (2). P. 341-347.

39- El-Hussiani, A. H.; El-Younsy, A. R. and ***Senosy, M. M.,*** (1990): Geological and Geoelectrical studies on the entrance of Wadi El-Mathula area, Eastern Desert, Egypt. Bull. Fac. Sci., Assiut Univ. , V. 19, N. 2, P. 85-112.

40- Ibrahim , H. A. and ***Senosy, M. M,*** (1988): Geoelectrical study on the area southeast of Kom Umbo, entrance of Wadi Kharite, Eastern Desert, Egypt, Bull. Fac. Sci. Assiut Univ., V. 17, N. 2, P. 125-135

December 2014 **Prof. Dr. M. M. Senosy**