

Personal Details

Full Name: Ahmed Nasr El Sayed

Nationality: Egyptian

Date of Birth: 06/01/1977

Present occupation: Professor of Geophysics, Geophysical Exploration
Department, Desert Research Center.

Field of specialization: Groundwater, Environmental
and engineering Geophysics.

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Academic Record

- B.Sc.1998, Bachelor of Geology with grade very good - Al Azhar University.
- M.Sc. 2003 Master of Science in Geophysics – Al Azhar University under title “*Geoelectrical study on the groundwater resources’ in Wadi Sudr, south Sina - Egypt*”
- Ph.D. 2007, Philosophy doctorate in applied geophysics concerned with groundwater exploration, under title “*Geophysical Studies on the Groundwater Conditions in the up Stream of Wadi Hodein, Southeastern part of the Eastern Desert, Egypt.*”

Occupational History

- Assistant Researcher, Geophysical Exploration Department, Desert Research Center. 2001-2003
- Researcher Assistant, Geophysical Exploration Department, Desert Research Center.2003-2007
- Researcher, Geophysical Exploration Department, Desert Research Center.2007-2016.
- Teaching of applied geophysics and geotectonic courses at faculty of science, Fayum university, from 2006 to 2013.
- Teaching of applied geophysics course at Faculty of science, Beni Sewif University, from 2007 to 2013
- Assistant Professor, Geophysical Exploration Department, Desert Research Center.2016-2025
- Professor, Geophysical Exploration Department, Desert Research Center.2025

Field of Experience

A - In the field:

1. Carrying out Geoelectrical measurements including:
 - Vertical Electrical Sounding.
 - Geoelectrical Profiling (ERT).
 - Imaging tomography (2D or 3D).
2. Carrying out Seismic refraction measurements including:
 - Seismic refraction profiling.
 - Seismic refraction tomography.
3. Carrying out ground magnetic survey.

B- In the office:

1. Qualitative and quantitative interpretation of geoelectrical measurements including Vertical Electrical Sounding, Geoelectrical profiling and Geoelectrical Tomography.
2. Interpretation of Seismic refraction measurements.
3. Identification of the parameters of the water bearing layers.
4. Participation of the projects reports.
5. Good experience in a lot of computer programs dealing with the mapping and interpretation of different geophysical and geological tools

Research Projects As a team member

1. Using shallow seismic to evaluate Porto Al Sharm area and its effect of geologic sutures.
2. Using Geoelectric 2D and shallow seismic to evaluate the geological setting of proposed locations for building dams – South eastern desert- Egypt.
3. Using Geoelectric 2D and shallow seismic to determine locations of springs in wadi Hodein-project of Bedouins settling of ministry of Agricultural. Egypt
4. Using Shallow seismic to study the effect of geological structures of El- Minia area for foundation of New – Minia.
5. Using ERT to study leaking of Heptan gas stores – Berrly Company of rubber – Al Amria city- Egypt.
6. Using Shallow seismic to study leaking of gas stores – KOC Company, Kuwait country.
7. Using shallow seismic and geoelectric 2D to study the reasons of Dam failure in circular road in Kuwait country.

8. Geological and geophysical studies for water resource developments, Esh El Mallaha area, eastern Desert (Scientific project by Desert Research Center, 2001 – 2002).
9. Geological studies of Shalatein – Abu Ramad area (scientific project by Desert Research Center, 2003 till now).
10. The development of the northern coast, Sidi Barrani and Sidi Abd El Rahman, western Desert (Scientific project as scholarship from UN, 2002 – till now).
11. Bedews settlement in the area from Ras Banas to Mersa Allam, Eastern Desert (FAW, 2003 – till now).
12. Geophysical exploration for groundwater resource at Madinaty city east Cairo (for drilling water wells, 2006).
13. Geophysical exploration for groundwater resource at Ewinate area in western Desert (Scientific project by Desert Research Center, 2006 – 2009).
14. Participation in some private jobs in Sinai Peninsula, Eastern Desert and Nile Valley.
15. Geophysical and geological studies of Jurf Dam in El Doqum city, Oman 2014.
16. Geophysical exploration for groundwater resource at West El Mania area (2016).
17. Geophysical exploration for groundwater resource at New Capital area (2017).
18. Geophysical exploration for groundwater resource at El Daabah – Road El Farag high way (2017).
19. Geophysical exploration for groundwater resource at New Sohag city (2017).
20. Geoelectrical measurements to calculate geotechnical parameters at New Sohag (2017).
21. Geoelectrical measurements to calculate geotechnical parameters at Cairo west power plant, Awsim Giza egypt (2017).
22. Geophysical exploration for groundwater resource at El Tawella Island Red Sea - Egypt (2018).
23. Geoelectrical measurements to calculate geotechnical parameters at El alamain Bridge (2018).
24. Geoelectrical measurements to calculate geotechnical parameters at MFO (Multinational Forces and observes sites in Sini Egypt (2019).
25. Geophysical exploration for groundwater resource at west west El Mania area (2019).
26. Hydrogeological and geophysical study to determine the sources and paths of water seepage from the slope facing the sea, which appears on the surface in - Mount Galala - El-Azzi El-Sokhna (2024).

Project Consultant

1. Consultant of MAP Group for natural gas exploration along port Said tunnel 2017.
2. Consultant for the drilling of the wells and the injection of the sea port of Jerjub (2018).
3. Consultant for the drilling of the wells and the injection of Ras Binas sea port of (2018).
4. Consultant to dig wells of Fakhar El Behar village (2018).

5. Consultant to dig wells of El Tawella Island Red Sea Egypt (2019).
6. Consultant Tech. and Vo - TVT II (2019).

List of Publications

- Ahmed N. El Sayed., (2016): The Impact of Geologic Setting on the Groundwater Occurrence in the Eocene Limestone of El Minia-East Nile-Egypt, Using Geoelectrical Technique, Adv. Appl. Sci. Res., 2016, 7(4):257-273.
- Hosny M. Ezz El Deen, Mostafa S. M. Barseem And Ahmed N. El Sayed., (2013): Groundwater Exploration in Wadi El - Shaghab Using Geophysical Techniques, East Idfu, Eastern Desert, Egypt, Egyptian Journal of Geology, v.57, 2013, p.31 – 47.
- Galal H. Galal, Ahmed N. El Sayed and Hussein H. Mahmoud., (2011): Geophysical Study on Groundwater Occurrence in Wadi El Reshrash, South El Saf, Egypt, J.Appl. Geophys., vol. 10, No. 1, March 2011, 145-158.
- Abaseiry A. Abdel Rahman, Mostafa S. M. Barseem and Ahmed N. El Sayed., (2011): Delineation of the Fracture Direction System and its Impact on the Groundwater Possibility Around Gebel El-Minshera Using 1d, 2d And 3d Geoelectrical Methods - Central Sinai – Egypt, J. APPL. GEOPHYS., VOL. 10, NO.2, SEPTEMBER 2011, 201-218.
- Mohamed A. Khaled, Ayman M. M. Al Temamy, Mostafa S. Barseem, Ahmed N. El Sayed, El Sayed A. El Abd (2015): Geoelectrical and Hydrogeological Study to Delineate the Geological Structures Affect the Groundwater Occurrence in Wadi El Khariq Basin, Northwest El Maghara, North Sinai, Egypt., Accepted for publication in EGS Jour.
- Mohamed Abdellah Khaled and Ahmed Nasr El Sayed (2012): Hydrogeological Studies for Groundwater Evaluation in the Delta of Wadi Wardan – South of Sinai, Egypt, J. APPL. GEOPHYS., VOL. 11, NO.2, 2012, 133-150.
- Al-Abaseiry. A. Abd El-Rahman, Ahmed N. El Sayed (2012): Study of the Impact of the Surface Water on the Groundwater Using Geoelectrical Methods in El- Salhyiah El Gedidah, Egypt, EGS journal, vol.10, No.1, 2012 ,129-138.
- Al-Abaseiry A. Abdel Rahman, Ahmed N. El Sayed and Mostafa S. M. Barseem (2010): Geoelectrical Exploration to Delineate the Roundwater Occurrence in Risan Unayzah Area, North Sinai, Proc. 6th International Symposium on Geophysics, Tanta, Egypt, 2010 ,144-152.
- Mostafa S. M. Barseem and Ahmed N. El Sayed (2008): Application of the Geoelectrical Method to Study the Factors Affecting on the Groundwater Quality in the Area to the West of Kilometer 117 Along the Cairo – Alexandria Desert Road, West Nile Delta (Case Study), Egyption J.Desert Res.,58,No.2,2008, 229-242.
- Mostafa S. Barseem & Ahmed N. El Sayed & Ahmed M. Youssef (2013): Impact of geologic setting on the groundwater occurrence in wadis El Sanab, Hashem, and Khrega using geoelectrical methods—northwestern coast, Egypt Arab J Geosci (2014) 7:5127–5139 DOI 10.1007/s12517-013-1129-5
- Ahmed N El Sayed, Mostafa SM Barseem, Hosny M Ezz El Deen and Hesham (2017): Using of Geo-electrical and Geochemical Techniques to Investigate the Change in Ground

Water Quality-South West El Khtatbah City - Cairo-Alexandria Desert Road, Egypt
(2017) *Advances in Applied Science Research*, 2017, 8(4):77-95

- Milad Z Halim, Ahmed Youssef, Ahmed N El Sayed, and Sawsan Moselhey (2020): Assessment and Management of Water Resources in Wadi El Deep Using Geophysical, Hydrological and GIS Techniques – Red Sea (2020) *Journal of African Earth Sciences*.
- Th.H. Abdel Hafeeza, H.S. Sabeta, A.N. El-Sayed, M.A. Zayed (2018). Geoelectrical exploration of groundwater at West Dayrout Area, Assiut Governorate, Egypt. *NRIAG Journal of Astronomy and Geophysics* NRIAG Journal of Astronomy and Geophysics 7 (2018) 279–296.
- Adel Kotb, Alhussein Adham Basheer, Ahmed Nasser, Mohamed Ramah (2021). Utilizing ERT and GPR to Distinguish Structures Maleficence the Constructions in the New Administrative Capital, Egypt. *Earth Sciences* 2021; 10(5): 234-243.
- Ahmed M.A. Youssef , Sawsan M.M. Ibrahim , Ahmed N. El Sayed , Milad H.Z. Masoud. Assessment and management of water resources in Wadi El-Deeb using geophysical, hydrological and GIS techniques-Red Sea (*Journal of African Earth Sciences* 164 (2020) 103777).
- Salem Sh.M., Shendi E.H., Ezz EL Deen H.M. and A.N. EL Sayed (2021) The Effect of the Electrical Resistivity Techniques for Exploring Groundwater Occurrences in Cavernous Limestone (Laboratory Case Study). *Egyptian Geophysical Society EGS Journal*, Vol. 18, No. 1, 183-193 (2020).
- Fardous M. Zarif, Ahmed M. Elshenawy, Mostafa S. M. Barseem, AbdallaA.Al-Abaseiry & Ahmed N. El Sayed (2022). Evidence of geoelectrical resistivity values on groundwater conditions in Wadi El Natrun and its vicinities, West Delta, Egypt (cases studies), *Scientific Reports* | (2022) 12:10745
- Mahmoud Zayed, and Ahmed Nasr (2023). Detection of Fractured Limestone Landslides Using Electrical Resistivity Tomography: A Case Study in the Mokattam Plateau, Egypt. *Iraqi Geological Journal* 2023, 56 (2C), 143-152
- Mohamed Ramah, Essam Heggy, Ahmed Nasr, Mostafa Toni, Mohamed M. Gomaa, Emmanuel Hanert, Adel Kotb (2024). Nubian aquifer linkage to the High Aswan Dam Reservoir: Initial assessments of processes and challenges. *Journal of Hydrology* 644 (2024) 131999.
- Ahmed Nasr (2024). Studying the Effect of Saltwater Intrusion on the Quaternary Aquifer Using Geophysical techniques, El Amal City, East Ismailia, Egypt. *Delta Journal of Science DJS* Vol. 49 (1) (2024) – pp. 131-151 ISSN: 1012-5965.
- Ahmed Nasr (2024). Study the Impact of Structural Geology on the Groundwater Aquifers Using Electromagnetic Survey - Wadi El Saieda - Western Desert - Egypt. *Journal of Applied Geophysics (Cairo)* Vol. 23, Issu.1, June (2024) (p.p., 23-36) *Journal of Applied Geophysics (Cairo)* Vol. 23, Issu.1, June (2024) (p.p., 23-36).