

# **CURRICULUM VITA**

## **Sharafeldin Mahmoud Sharafeldin. PhD**

**Professor, Geophysics, Cairo University, Egypt**

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### **Education:**

- 1986-1991** *Ph.D. in **Applied Geophysics**, Cairo University.*
- 1980-1985** *M.Sc. in **Interpretation of Potential Field Geophysics**, Cairo University*
- 1982-1983** *Diploma in Ground water Geophysics, ITC, Delft, The Netherlands.*
- 1975-1979** *B.Sc. in Geology, Cairo University (Very Good).*
- 2002-2004** *Post-graduate Diploma in **Management**, Helwan University, Cairo.*

### **Academic Experience:**

- 2014- Now Professor, Geophysics Dept., Cairo University**  
*Professor of Applied Geophysics. Teaching under- and post-graduate students. Leading research teams on Applied Geophysics.*
- 2011-2014 Professor, Chairman of Geophysics Dept., Cairo University**  
*Professor of Applied Geophysics. Teaching under- and post-graduate students. Leading research teams on Applied Geophysics. Leading team to acquire the accreditation Certificate for two under-graduate programs and there post-graduate programs.*
- 2009-2011 Professor, Geophysics Dept., Cairo University**  
*Professor of Applied Geophysics. Teaching under- and post-graduate students. Leading research teams on Applied Geophysics.*
- 2000-2009 Associate Professor, Geophysics Dept., Cairo University**  
*Assistant professor of Potential Field and Applied Geophysics. Teaching under- and post-graduate students. Leading research teams on Applied Geophysics.*
- 1991-2000 Lecturer, Geophysics Dept., Cairo University**  
*Lecturer of Potential Field and Applied Geophysics for under and post-graduate students.*

**1985-1991 *Assistant Lecturer, Geophysics Dept., Cairo University***

*Responsible for laboratory & field geophysical-exercises to undergraduate students.*

**1979-1985 *Demonstrator, Geophysics Dept., Cairo University***

*Responsible for laboratory & field geophysical-exercises to undergraduate students.*

**Administrative Positions:**

- ***Chairman head of Geophysics*** Department (2011-2014).
- ***Share in initiation of the Petroleum Geosciences Program (2007)*** and coordinator of the program (2010-2014).
- Represent the department in the following Faculty Board Committees:
- Undergraduate Students affairs committee. (2005-2007)
- Postgraduate and researches affairs committee. (2008–2011)
- Laboratory and Equipment committee. (1994-2000)
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**Professional Skills:**

**1991-1994** Member of research team for mineral prospecting project, Wadi Bitan region, South of Eastern Desert, Egypt.

**1991-1994** Member of research team for iron ore prospecting project, Bahariy Oasis region, Western Desert, Egypt.

**1994-1996** Supervisor of Geoelectrical Resistivity Team responsible for the characterization of the sub-urban proposed site of the New-Fayoum City, Southeast Cairo, Egypt.

**1995-1997** Supervisor of Geoelectrical Resistivity Team responsible for evaluation of the hydrologic and groundwater of the proposed site of Wadi El-Tarfa area, Eastern Desert, East of El-Menia City, Egypt.

**1996-present** Founder Manager and geophysical consultancy Firm (***GEOTEA***, Private Company for geophysical and geological services), Cairo, Egypt. Conducted more than 100 Projects.

**1997-2015** Geophysical consultant for many ***Oil Companies*** in Egypt.

**1998-2001** Geophysical Consultant for the Water Research Center, Ministry of Water-Ways and Irrigation, Egypt.

**2005-2007** Professional training on potential field interpretation in oil exploration delivered by Aramco geoscientists, organized by Spectrum-Geopex, Egypt.

**1996-present Founder of Geteam G & G consulting company conducting and supervise more than 100 projects.**

**May 2013- September 2014 *Project Manager of Waste disposal Project funded by Finish Government (Basel Convention)***

### **Professional Training Programs:**

- *Workshop on "Application of Remote Sensing and GIS, PCI - ARC-INFO Software Applications". Sponsor: Washington State University, 1995, Cairo University, Egypt.*
- *Training courses for teaching (Accreditation, Learning Technologies, Scientific Writing and publications, Scientific Ethics, Project Proposals (Cairo University Staff Training Center.*

### **Memberships:**

- *Member of Society of Exploration Geophysics (SEG), USA.*
- *Active member, Egyptian Geophysical Society (EGS), Egypt.*
- *Active member, Geological Society of Egypt (GSE), Egypt.*
- *Founder and Advisor of SEG Cairo University Student Chapter.*

### **Thesis Supervision:**

- *Supervised 16-awarded M.Sc. theses in different topics of Applied geophysics (Seismic interpretation, Electric Resistivity, Gravity, magnetics, Radiometry ) in different field of applications (tectonics, exploration, engineering and environmental geophysics)*
- *Supervised five-awarded PhD. thesis;*
- *Currently supervising four Ph.D.& Twelve M.Sc. work-plans.*

### **Research Scholarships:**

- *B.Sc. Grant (1975-1979), Geology Dept., Faculty of Science, Cairo University.*
- *ITC Fellowship (September 1982- Aug. 1983), ITC Delft, The Netherlands.*

- International Institute of Education (IIE) fellowship granted December 2015 for one year

## **Conferences:**

1. The Annual meeting of the Egyptian Geophysical Society (EGS). Arch, 2015, Cairo, **Egypt**.
2. Second Mediterranean Oil and Gas Conference (MOC2014), Alexandria.
3. The Annual meeting of the Egyptian Geophysical Society (EGS). Arch, 2014, Cairo, **Egypt**.
4. The Annual meeting of the Egyptian Geophysical Society (EGS). Arch, 2013, Cairo, **Egypt**.
5. Fourth International Conference of Petrophysical Society of Egtpt, Feb. 7-9 2007, Cario.
6. 8<sup>th</sup> Intern. Conf. of the Geology of Arab World, Feb. 13 – 16, 2006, Cairo.
7. Fourth International Geophysics Conference, Tanta, Egypt.
8. Second International Petroleum Conference, 16-19 May 2005, Cairo Egypt.
9. 9<sup>th</sup>-Formation Evaluation Symposium of Japan, Sept. 25-26, 2003, Tokyo, **Japan**.
10. The Annual meeting of the Egyptian Geophysical Society (EGS). Feb. 23-25, 1999, Cairo, **Egypt**.
11. Big Cities World Conference on natural disaster Mitigation. 5-10 January 1996, Cairo, **Egypt**.
12. 12<sup>th</sup>-International SEG/EGS-Meeting, 1994, Cairo, **Egypt**.
13. Annual Meeting of the Egyptian Geophysical Society (EGS), 3-7 Feb. 1993, Cairo, **Egypt**.
14. Annual Meeting of the Egyptian Geophysical Society (EGS), 20-25 March 1992, Cairo, **Egypt**.

## **Publications:**

### **List of Publications**

1. - Said Hanafy, Shastri L Nimmagadda, Sharaf Eldin Mahmoud, Waleed Mabrouk and Khamis Farhood, 2016, New Insights on Structure and Stratigraphic Interpretation for Assessing the Hydrocarbon Potentiality of Offshore Nile Delta Basin, Egypt. Journal of Petroleum Exploration and Production Technology, 1-23, DOI 10.1007/s13202-016-0264-4, <http://link.springer.com/article/10.1007/s13202-016-0264-4>
2. Hanafy, S., Shastri L. N., **Sharafeldin, sh. M., 2016** "Potential Field Data Guided Seismic Forward Modelling of Basement Structures: a Case Study from

Offshore Nile Delta Basin". Accepted for oral presentation at 25th International Geophysical Conference and Exhibition in Adelaide, South Australia, to be held from August 21-24, 2016.

3. Hanafy, S., **Sharafeldin, sh. M.**, Shastri L. N., Farhood, kh., Mabrouk,W., 2016, "Regional integrated interpretation of the hydrocarbon prospectively of North H'apy Offshore Egypt." Arabian Journal of Geosciences, 9(5), 1-18, DOI 10.1007/s12517-016-2387-9, <http://link.springer.com/article/10.1007/s12517-016-2387-9>
4. Hanafy, S., **Sharafeldin, sh. M.**, Shastri L. N., Farhood, kh., Mabrouk,W., 2015, "Some Sources of Velocity anomalies in the Nile Delta" Presented at EGS annual Meeting, Cairo.
5. Hanafy, S., **Sharafeldin, sh. M.**, Shastri L. N., k., Farhood, kh., Mabrouk,W., 2015, "New insights on interpretation of seismic attributes in Nile-Delta basins for analyzing Pliocene geological characteristics" Presented at Second Mediterranean Oil and Gas Conference (MOC2), Alexandria Egypt.
6. Elkammar, M., **Sharafeldin, Sh. M**, Abuezz, A., Farhoud, K., 2014, "Potential field interpretation of area between west Wadi Elrayan and East Bahariya, North Western Desert, Egypt." EGS accepted for publication.
7. Radwan, M, **Sharafeldin, Sh. M**, Issa, K., 2014, "AVO analyses and spectral decomposition of seismic data, Off-shore Nile Delta, Egypt." EGS, Vol. 12, No.1.
8. Dahroug, A, **Sharafeldin, Sh. M**, Morsy, E., 2014, "Contribution of the acoustic impedances and petrophysical parameters to lithology and fluid discrimination in Off-shore deposits, West Nile Delta, Egypt." EGS, Vol. 12, No.1, p. 9-15.
9. **Sharafeldin, Sh. M.**, 2008, "Interpretation of High Resolution Aeromagnetic (HRAM) Data, South East Esh El-Mallaha area, Gulf of Suez, Egypt": ESPA, vol.7, No. 1, p. 247-263.
10. **Sharafeldin, Sh. M.**, 2008, "Contribution of Ground Penetrating Radar and Electrical Resistivity Tomography to characterize the cavity and fractures in new Beni Suief city, South Cairo, Egypt": ESPA, vol.7, No. 1, p. 278-304.
11. **Sharafeldin, Sh. M.**, 2008, "Seismic Refraction Survey to Characterize Bedrock of Dam and Reservoir Site, Wadi Asala, Jeddah Area, Saudi Arabia." ESPA, vol.7, No. 1, 265-286.
12. **Sharafeldin, Sh. M.**, Elkattan,E. I .M., Nigm, A. A., Elshami, A., Shokry, M. A., 2008, "Shallow seismic refraction and geoelectric resistivity investigations to delineate the subsurface occurrences of Um Bogma mineralization bearing horizon,Wadi El-Seih, Sinai, Egypt": Accepted for puplication ESPA, vol.7, No. 2.
13. Elkattan, E. M., Nigm, A. A., **Sharafeldin, Sh. M.**, Alshami, A. s., and Shokry, M. A., 2007, Application of composite imaging migration techniques in the interpretation of ground gamma-ray spectrometric data in wadi El-Seih-Baba area, southwestern Sinai, Egypt. EGS Journal, vol. 5, No. 1, 117-128.
14. **Sharafeldin, Sh. M.**, Meshref, W. M., 2006, "Aeromagnetic and gravity interpretation of sedimentary basins spatial distribution around Nile Valley South Cairo, Egypt": Paper presented at 8th International Conference of the Geology of the Arab World (GAW).

15. **Sharafeldin, Sh. M.**, 2006, "Aeromagnetic interpretation of regional structural setting of area west Nile Basin between Beni-Suef and El-Menia, Egypt": Paper presented at 8th International Conference of the Geology of the Arab World (GAW).
16. El-Behiry, M. G.; Helba, A. A.; and **Sharafeldin, Sh. M.**, 2003 "Integrated Geological and Geophysical Studies to Assess Hazard Potentiality of Engineered Site, Cairo, Egypt": The 9<sup>th</sup> Formation Evaluation Symposium of Japan, September 25-26, 2003.
17. Hosney, H., **Sharafeldin, Sh. M.**, Abu Zeid, A. T., 2002, "Tectonic framework of the basement rocks of Um-Shilman area, southeast of Aswan delineated from aeromagnetic data": Al-Azhar Bull. Sci., vol. 13, No. 2, pp. 139-169.
18. **Sharafeldin, M.S., 2000**, Linear inversion of SP anomalies caused by dike model. Journal of Engineering and Science, v.64.
19. **Sharafeldin, M.S., 1999**, Site characterization of New Fayoum City site and hydrological condition, Journal of Engineering and Science, v.62.
20. E. M. Abdelrahman, A. A. Ammar, **Sh. M. Sharafeldin** and H. I.Hassanein, 1998, "Shape and depth solutions from numerical horizontal self-potential gradients". Jour.App. Geoph., v. 37, Pages 31-43.
21. E. M. Abdelrahman and **Sh. M. Sharafeldin**, 1997, A least-squares approach to depth determination for Self-Potential anomalies caused by horizontal cylinder and sphere. Geophysics 62, 44.
22. E. M., Aelrahman and **Sh.M. Sharafeldin**, 1997, An iterative least- E. M. Abdelrahman and **Sh. M. Sharafeldin**, 1997. Reply by the authors to Ram Babu • DISCUSSION. Jour. App. Geoph., Pages 153-154.
23. Discussion on "an iterative least-squares approach to depth determination from residual magnetic anomalies due to thin dikes" DISCUSSION , Jour. App. Geoph., Pages 149-152, H. V. Ram Babu.
24. E. M., Aelrahman and **Sh.M. Sharafeldin**, 1997, An iterative least-squares approach to depth determination from residual magnetic anomalies due to thin dikes. Jour. App.Geoph.,V.34, Pages213-220.
25. El-Difrawy, M.F.I.; El-Behiry, M.G.; and **Sharafeldin, Sh. M.**, 1996, Surface geophysics for delineating buried graves in highly contaminated sites: An environmental and archaeological case history. J. Eng. and Appl. Sci., Fac. Eng., Cairo University, Vol. 43, No. 1, pp. 213-227.
26. El-Difrawy, M.F.I., El-Behiry, M.G., **Sharaf El-Din, Sh.M.**, and Abdel-Hady, Y.E., 1996, Seismic stability studies of the proposed New-Fayium City site, 50 Km SW of the Oct. 12, 1992 Fayium earthquake causative fault. Big Cities World Confr. on Natural Disaster Mitigation & 10th International Seminar on Earthquake Prognostics, Jan. 5-10, Cairo, Egypt.
27. El-Sayed Mohamed Abdelrahman and **Sharafeldin Mahmoud Sharafeldin**, 1995, A least-squares minimization approach to depth determination from numerical horizontal gravity gradients. Geophysics, 60.

28. El-Sayed Mohamed Abdelrahman and **Sharafeldin Mahmoud Sharafeldin**, 1995, A least-squares minimization approach to shape determination from gravity data. Geophysics, 60.

### **Submitted Papers:**

1. Shastri Nimmagadda, Said Hanafy, Sharaf Eldin Mahmoud, 2015, On a Robust Modelling Approach for Managing the Petroleum Data Sources of the Nile Delta Basin. Submitted to JPSE
2. Said hanafy; Sharaf Eldin Mahmoud; Shastri L Nimmagadda; waleed Mohammad Mabrouk; Khamis Farhood, 2015; "Integrated 2D forward modeling of seismic and magnetic data A case study from offshore Nile Delta". Journal of Arabian Geosciences
3. Shastri L Nimmagadda, Said Hanafy, Sharaf Eldin Mahmoud, Waleed Mabrouk and Khamis Farhood, 2015, "Multidimensional Velocity Attribute Modelling in the Offshore Nile Delta Basin", submitted online in Interpretation (SEG)), manuscript ID is INT-2015-0193.