

## CURRICULUM VITAE

**Name:** Kamal Abdelrahman El Sayed Hassanein

**Date and Place of Birth:** 25-09-1967, Sharkia, Egypt

**Nationality:** Egyptian

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**Current Occupation:**

**Professor**, Department of Geology and Geophysics, College of Science, King Saud University, Riyadh, Saudi Arabia.

**Permanent Occupation:**

**Professor**, Department of Seismology, National Research Institute of Astronomy and Geophysics (**NRIAG**), Helwan, Cairo, Egypt.

**Education**

- **May 1990:** **B.Sc.** in Geology (grade: very good), Geology Department, Faculty of Science, Zagazig University, Egypt.
- **Dec. 1994:** **M.Sc.** in Geophysics (Integrated Geophysical studies on the Alam El Shawish area, Western Desert, Egypt), Geology Department, Faculty of Science, Zagazig University, Egypt.
- **July 1999:** **Ph.D.** in Geophysics (Geophysical Studies for the Selected Sites of the National Seismological Network in the North-western part of Egypt), Faculty of Science, Zagazig University, Egypt.

**Employment**

- **July 2011- present:** Professor, Geology and Geophysics Dept., College of Science, King Saud University, Riyadh, Saudi Arabia.
- **May 2011 – present:** Professor, Seismology Dept., **NRIAG**
- **June 2005 – July 2011:** Associate Professor, Seismology Dept., **NRIAG**.
- **Nov. 1999 - June 2005:** Researcher (lecturer), Seismology Dept., **NRIAG**.
- **Dec. 1996 - Nov.1999:** Assistant Researcher, Seismology Dept., **NRIAG**
- **Feb. 1994 - Dec.1996:** Seismologist, Seismology Dept., **NRIAG**
- **March 1992 - Jan.1994:** Geophysicist, Desert Research Centre, Cairo, Egypt.
- **June 1990 - Feb. 1991:** Geophysicist, General Petroleum Company (**GPC**), Cairo, Egypt.

**Research Interests**

- Engineering and environmental Geophysics.
- Hydrogeological and Hydrogeophysical Investigations.
- Near-surface geophysical applications (shallow seismic refraction, microtremors, bore-hole logs, ground penetrating radar [**GPR**]).
- Seismic hazard assessment (probabilistic, deterministic, and stochastic approaches).
- Monitoring of vibration characteristics for buildings, bridges, and archaeological monuments.

**Awards**

- **May 2021:** second researcher in the abundance of scientific publications in the Arabian Journal of Geosciences, which is issued by Springer International Publishing House - Germany

## LIST OF PUBLICATIONS

❖ **CHAPTER IN BOOKS**

- Abdullah Al Amri, [K. Abdelrahman](#), M.O. Andreae, And M. Al-Dabbagh (2017): Crustal and Upper Mantle Structures Beneath the Arabian Shield and the Red Sea, F. Roure et al. (eds.), Lithosphere Dynamics and Sedimentary Basins of the Arabian Plate and Surrounding Areas. *Frontiers in Earth Sciences*, DOI 10.1007/978-3-319-44726-1\_1.

❖ **PEER-REVIEWED PAPERS**

1. Samir, A.; Ghonemi, A., Ibrahim, S.; and [Kamal Abdel-Rahman \(1994\)](#): "Subsurface Structural Pattern as deduced from the Bouguer anomaly map of Alam El-Shawish area, Western Desert, Egypt". *Bulletin of Faculty Science, Zagazig Univ.*, 14(1), 70-88pp.

2. [Kamal Abdel-Rahman \(1994\)](#): "Integrated Geophysical Studies on Alam El-Shawish area, Western Desert, Egypt". *M.Sc. Thesis, Faculty of Science, Zagazig Univ., Zagazig, 151P.*
3. Ghonemi, A.; Samir, A.; Ibrahim, S.; and [kamal Abdel-Rahman \(1995\)](#): "Seismic structure analysis of Alam El-Shawish area, North Western Desert, Egypt". *Proceedings of the 13<sup>th</sup> Ann. Meet., Egyptian Geophysical Society (EGS), March*, pp.141-154.
4. Samir, A; Albert, R.N.H.; El-Gezeery, R.; Mohamed, A. A.; and [kamal Abdel-Rahman \(1998\)](#): "Major and active seismotectonic trends in the northwestern part of Egypt as deduced from Seismological and Gravity data". *Bulletin Faculty Science, Zagazig Univ., 20(1)*, pp. 45-65.
5. Abuo-El-Ela A. Mohamed and [Kamal Abdel-Rahman \(1998\)](#): "Attenuation Characteristics of Intensity and Ground Acceleration in Northern part of Egypt". *Bulletin of Faculty Science, Cairo Univ., Vol. 66*, pp. 189-210.
6. [Kamal Abdel-Rahman \(1999\)](#): "Geophysical Studies for the selected sites of the National Seismological Network in the northwestern part of Egypt". *Ph.D. Thesis, Faculty of Science, Zagazig Univ., 201p.*
7. A.A. Tealeb; M. E. Sobaih; A. A. Mohamed, and [Kamal Abdel-Rahman \(2000\)](#): "Determination of Safe Distance between Quarry Blasting and Buildings". *Proceedings of the 3<sup>rd</sup> Cairo Conference for Earthquake Engineering, Cairo Univ., Nov. 18-20, 20 p.*
8. A.A. Tealeb; A. A. Mohamed, and [Kamal Abdel-Rahman \(2000\)](#): "Monitoring and interpretation of Quarry blasts of Tura Portland Cement Company, Cairo, Egypt". *Proceedings of the 18<sup>th</sup> Ann. Meet, Egyptian Geophysical Society (EGS), April*, 17p.
9. Othman, A. A.; Abuo-El-Ela A. Mohamed and [kamal Abdel-Rahman \(2000\)](#): "Investigation of ground motion for the quarry blasts around 15<sup>th</sup> of May City, South of Cairo province, Egypt". *Bulletin Fac. of Science, Al-Azhar Univ., vol.11, No.1 (June)*: pp.241-252.
10. El-Hady, S.; Khalil, A and [Kamal Abdel-Rahman \(2001\)](#): Optimal estimation of heat flow density from inaccurate oil well data using non-linear least square inversion method: Application to the area of Dahshour 12<sup>th</sup> of Oct.,1992 earthquake in Egypt. *Bull. Fac. Sci., Zagazig Univ., vol. 23(2)*, pp. 89-104.
11. A.A. Tealeb; M. E. Sobaih; A. A. Mohamed, and [Kamal Abdel-Rahman \(2002\)](#): "Ground motion and site studies in the eastern part of Egypt". *Proceedings of 3<sup>rd</sup> Inter. Conf. on Computer Simulation in Risk Analysis and Hazard Mitigation, WIT Press, Ashurst Lodge, Ashurst, Southampton, UK*. Pp 627-638.
12. El-Hadidy, S.; Tealeb, A.A.; Mohamed,A. A.; [Kamal Abdel-Rahman](#); Atiya,K. and El-Shahat, A.M.(2002): Seismic Hazard Assessment and Seismic Safety for the proposed Astronomical Observatories at Abu Tartur and Fayed sites, Egypt. *Annals Geol. Surv. Egypt. VXXV*, pp. 142-163.
13. El-Hadidy, S.; Tealeb, A.A.; Mohamed,A. A.; [Kamal Abdel-Rahman](#); Atiya,K. and El-Shahat, A.M.(2002): Geotechnical Evaluation of the ground for the proposed Observatories at Abu Tartur and Fayed sites, Egypt. *Annals Geol. Surv. Egypt. VXXV*, pp. 164-191.
14. A.A. Tealeb; M. E. Sobaih; A. A. Mohamed, and [Kamal Abdel-Rahman \(2003\)](#): "Stress Level Estimation for the Ground beneath the 15<sup>th</sup> of May City Buildings, Helwan, Cairo, Egypt". *Acta Geodaetica et Geophysica Hungarica (AGGH) Bulletin, Hungary*, Vol. 38(1), pp.429-443.
15. Abou-elela A. Mohamed; Ali A. Tealeb; Mahmoud A. El-Hefnawy; Hassan H. El-Qady; [Kamal Abdel-Rahman](#) and Abde-Aziz K. Abdel-Aal (2003): Seismicity and seismic hazard assessment for El-Fayoum city, Egypt. *Bulletin of Fac. of Science, Zagazig Univ., 26(1)*, pp. 61-79.
16. [Kamal Abdel-Rahman \(2003\)](#): Attenuation of Intensity and Peak Ground Acceleration for March 8, 2001 Gulf of Aqaba earthquake, Egypt. *Bulletin of Fac. of Science, Zagazig Univ., 26(2)*, pp. 108-129.
17. [Kamal Abdel-Rahman \(2006\)](#): Geotechnical parameters and seismic hazard assessment for Gasco site, Egypt. *Journal of Seismological Research, China*, Vol. 4 (no.2), pp. 241-253.
18. [Kamal Abdel-Rahman](#), Sherif M. Elhady, Adel M. Elshahat, Abuo El-Ela A. Mohamed and Mostafa Sarhan (2006): Microzoning study for Hurghada city, Red Sea Coast, Egypt. *Journal of Geophysics*, Vol. 4, pp. 218-234.
19. M. Khaled, [Kamal-Abdel-Rahman](#) and A. Abo Makarem (2007): Experimental Techniques to reduce blasting vibration level, Tourah, Cairo, Egypt. *Proceedings of the 33<sup>rd</sup> Annual Conference of Explosives and Blasting Technique, Nashville, USA*, Vol., 1, pp. 136-152.
20. M. Khaled and [kamal Abdel Rahman](#), and E. Bagy (2007): Safe blasting near the historical caves of Tourah, Cairo, Egypt. *Proceedings of the 4<sup>nd</sup> World Conference on Explosives and Blasting, Vienna, Austria*, pp. 365-379.

- 21.** M. Khaled, [Kamal-Abdel-Rahman](#) and M. Khattab (2008): Facing the drilling and blasting difficulties at Helwan Quarry, Egypt., Egypt. Proceedings of the 34<sup>th</sup> Annual Conference of Explosives and Blasting Technique, Nashville, USA.
- 22.** [Kamal Abdel-Rahman](#) and Enayat A. Awad (2008): Strong motion observation for the eastern part of Egypt. *Proceedings of the 5<sup>th</sup> Gulf Seismic Forum, 6-9 April, Sana'a, Yemen.*
- 23.** Sobaih, M.; [Kamal Abdel-Rahman](#) and Mady M. (2008): Estimation of Dynamic characteristics of existing common reinforced concrete buildings in Egypt using ambient vibrations. *Proceedings of the 14<sup>th</sup> World Conference on Earthquake Engineering, 12-17 Oct., pp. 1- 8.*
- 24.** [Kamal Abdel-Rahman](#); Abdullah M. S. Al-Amri and Enayat Abdel-Moneim (2009): Seismicity of Sinai Peninsula, Egypt. *Arabian Journal of Geosciences, Springer, DOI: 10.1007/s12517-008-0014-0*
- 25.** Deif A.; Azza Abed; [Kamal Abdel-Rahman](#) and Enayat Abdel Moneim (2009): Strong ground motion attenuation in Aswan area, Egypt. *Arabian Journal of Geosciences, Springer, DOI 10.1007/s12517-009-0103-8*
- 26.** Fnais, M. S.; [kamal Abdel-Rahman](#) and Al-Amri, A. M. (2010): Microtremor measurements in Yanbu City of western Saudi Arabia: A tool of seismic microzonation. *Journal of King Saud University- Science., DOI: 10.1016/j.jksus.2010.02.006.*
- 27.** Fnais, M. S.; [Kamal Abdel-Rahman](#) and Al-Amri, A. M. (2010): Ground motion simulation and response spectra at Yanbu City, Western Saudi Arabia, using stochastic method. *Journal of Applied Geophysics, Vol. 9, No. 1, pp. 9-32*
- 28.** [Kamal Abdel-Rahman](#), Abdel-Aal, A. Kh., El-Hady, Sh., Mohamed, A. A., Abdel-Moniem, E. (2010): Fundamental site frequency estimation at new Domiat City, Egypt. *Arabian Journal of Geosciences. DOI 10.1007/s12517-010-0222-2*
- 29.** Almalki, H.; El-Werr, A. and [kamal Abdel-Rahman](#) (2011): Estimation of near-surface geotechnical parameters using seismic measurements at the proposed KACST expansion site, Riyadh, KSA. *Arabian Journal of Geosciences, DOI: 10.1007/s12517-010-0124-3.*
- 30.** Fat-Helbary, R.; [kamal Abdel-Rahman](#), Fnais, M. S. and Enayat Abdelmoneim (2012): Seismic hazard and site response assessment on the proposed site of Aswan cement plant, Egypt. *International Journal of Earth Sciences and Engineering vol.5.no.4, pp. 644-651*
- 31.** Al-Zahrani, H. A., Fnais, M. S., Al-Amri, A. M. and [Abdel-Rahman, K.](#) (2012): Tectonic framework of the Lunayyir area, northwestern Saudi Arabia, using 19 may, 2009 earthquake swarm and aeromagnetic data. *International Journal of Physical Sciences, vol. 7(44), pp. 5821-5833, 23 November, 2012.*
- 32.** Al-Amri, A.M; Fnais, M. S.; [kamal Abdel-rahman](#); Mogren, S. and Al-Dabbagh, M. (2012): Geochronological dating and stratigraphic sequences of Harrat Lunayyir, NW Saudi Arabia. *International Journal of Physical Sciences, 7(20), pp. 2791-2805.*
- 33.** Fnais M.S., El-Araby H. M., [Kamal Abdel-Rahman](#), Elawadi I. and Al Soma A. (2013): Crustal structure of the Northwestern part of the Arabian Shield in Saudi Arabia deduced from gravity data. *Scientific Research and Essays, vol.12, PP. 466-484, 25 March 2013.*
- 34.** Al-Zahrani, H. A., Al-Amri, A. M., [Abdel-Rahman, K.](#) and Fnais, M. S. (2013): Aftershock sequence analysis of 19 May, 2009 earthquake of Lunayyir lava flow, northwest Saudi Arabia. *International Journal of Physical Sciences, Vol. 8(7), pp. 277-285, 23 February, 2013*
- 35.** K. Abdel-Fattah & A. M. Al-Amri & M. S. Fnais & [kamal Abdelrahman](#) (2013): Estimation of source parameters and attenuation using digital waveforms of Al-Ays 2009 earthquake, Saudi Arabia. *Arab J. Geosci, DOI: 10.1007/s12517-013-1021-3*
- 36.** Fnais, M. Ibrahim, E., Abdel-Motaal, E., [Abdulrahman, K.](#) Henidi, A. (2014). Structural development of northwest Saudi Arabia using aeromagnetic and seismological data. *J. of Geological Society of India.*
- 37.** S. Almadani & A. Al-Amri & M. Fnais & [K. Abdelrahman](#) & E. Ibrahim & E. Abdelmoneim (2015). Seismic hazard assessment for Yanbu metropolitan area, western Saudi Arabia. *Arab J Geosci 8:9945–9958. DOI 10.1007/s12517-015-1930-4*
- 38.** Mokbel Al-Harbi & Elkhedr Ibrahim & Abdullah Al-Amri & [Kamal Abdelrahman](#) & Essam Abd El-Motaal & Meinrat O. Andreae (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*

- 39.** Mohammed Fnais, Abdullah Al-Amri1, [Kamal Abdelrahman](#), Enayat Abdelmonem, Sherif El-Hady (**2015**). Seismicity and Seismotectonics of Jeddah-Makkah Region, West-Central Saudi Arabia. *Journal of Earth Science*, Vol. 26, No. 5, p. 746–754, October 2015.
- 40.** M. Fnais & A. Al-Amri & [Kamal Abdelrahman](#) & K. Al-Yousef & Omar allafouza Loni & Enayat Abdel Moneim (**2015**). Assessment of soil-structure resonance in southern Riyadh City, Saudi Arabia. *Arab J. Geosci* 8:1017–1027. DOI 10.1007/s12517-013-1247-0
- 41.** K. Alyousef & A. Al-Amri & M. Fnais & [Kamal Abdelrahman](#) & Oumar Loni (**2015**). Site effect evaluation for Yanbu City urban expansion zones, western Saudi Arabia, using microtremor analysis. *Arab J. Geosci* 8:1717–1729. DOI 10.1007/s12517-014-1310-5.
- 42.** Khaled Alyousef & Khaled Aldamegh & [Kamal Abdelrahman](#) & Oumar Loni & Ramzy Saud & Abdulla Al-Amri & Mohammed Fnais (**2015**). Evaluation of site response characteristics of King Abdulaziz City for Science and Technology, Saudi Arabia using microtremors and geotechnical data. *Arab J. Geosci* 8:5181–5188. DOI 10.1007/s12517-014-1542-4.
- 43.** Sattam Almadani & Elkhedr Ibrahim & [Kamal Abdelrahman](#) & Abdulaziz Al-Bassam & Awad Al-Shmrani (**2015**). Magnetic and seismic refraction survey for site investigation of an urban expansion site in Abha District, Southwest Saudi Arabia. *Arab J. Geosci* 8:2299–2312. DOI 10.1007/s12517-014-1342-x
- 44.** Sattam Almadani & [Kamal Abdelrahman](#) & Elkhedr Ibrahim & Abdulaziz Al-Bassam & Awad Al-Shmrani (**2015**). Site response assessment of an urban extension site using microtremor measurements, Ahud Rufeidah, Abha District, Southwest Saudi Arabia. *Arab J. Geosci* (2015) 8:2347–2357. DOI 10.1007/s12517-014-1380-4
- 45.** Sattam Almadani & Abdullah Al-Amri & Mohamed Fnais & [Kamal Abdelrahman](#) & Elkhedr Ibrahim & Essam Abd El-Motaal (**2015**). *Evaluation of geotechnical parameters for urban site in southern Khamis Mushait city, southwest Saudi Arabia, using seismic refraction method*. *Arab J Geosci* (2015) 8:6225–6236 DOI 10.1007/s12517-014-1615-4
- 46.** M. Alharbi & M. Fnais & A. Al-Amri & [Kamal Abdelrahman](#) & Meinrat O. Andreea & M. Al-Dabbagh (**2015**). Site response assessment at the city of Al Khobar, eastern Saudi Arabia, from microtremor and borehole data. *Arab J. Geosci* (2015) 8:10015–10030. DOI 10.1007/s12517-015-1890-8.
- 47.** M. Al-Malki & M. Fnais & A. Al-Amri & [Kamal Abdelrahman](#) (**2015**). Estimation of fundamental frequency in Dammam City, Eastern Saudi Arabia. *Arab J. Geosci* (2015) 8:2283–2298. DOI 10.1007/s12517-014-1337-7
- 48.** A. Al-Amri & M. Fnais & Kamal Abdelrahman & E. Abdelmoneim & H. Alqarni (2016). New methods to improve the assessment of shear wave velocities and seismic hazard parameters in Jeddah city, western Saudi Arabia. *Arab J. Geosci* (2016) 9:220. DOI 10.1007/s12517-015-2297-2
- 49.** Abd el-aziz Khairy Abd el-aal & Yuji Yagi & Heba Kamal & [Kamal Abdelrahman](#) (**2016**). Implementation of integrated multi-channel analysis of surface waves and waveform inversion techniques for seismic hazard estimation. *Arab J. Geosci* (2016) 9: 322. DOI 10.1007/s12517-016-2329-6
- 50.** Muhammad Kamran Jafri, Arif Lashin, ElKhedr Hassan Ibrahim; [Kamal A. Hassanein](#), Nassir Al Arifi and Muhammad Naeem (**2016**): Improved reservoir characterization using fuzzy logic platform: an integrated petrophysical, seismic structural and poststack inversion study. *Exploration Geophysics*, CSIRO Publishing: <http://dx.doi.org/10.1071/EG5112>.
- 51.** Ahmed Mohamed Tawfiq; Guanheng TAN; Ali G. Hafez; Abdullah Al-Amri; Nassir Al Arifi and [Kamal Abdelrahman](#) (**2016**): Automatic identification of fake pattern caused by short-width wavelets in seismic data. *Arab J. Geosci* (2016) 9: 580. DOI 10.1007/s12517-016-278-4
- 52.** Maher Aldahri, Saad mogren, [Kamal Abdelrahman](#), Hani Zahran, Sherif El Hady and Mahmoud El-Hadidy (**2017**): Surface Soil Assessment in the Ubbur Area, North of Jeddah, Western Saudi Arabia, Using a Multichannel Analysis of Surface Waves Method. *Journal Geological Society of India*, Vol.89, April 2017, Pp.

- 53.**Sattam Almadani, Hussain Alfaifi, Abdullah Al-Amri, Mohamed Fnais, Elkhedr Ibrahim, [Kamal Abdelrahman](#), Mohammed Shehata and Faisal Zaidi (**2017**): Hydrochemical characteristics and evaluation of the granite aquifer in the Alwadeen area, southwest Saudi Arabia. *Arab J Geosci* (2017) 10:139. DOI 10.1007/s12517-017-2873-8.
- 54.**[Kamal Abdelrahman](#), Abdullah Al-Amri, Nassir Al-Arifi and Enayat Abdelmoneim (**2017**): Seismic Risk Assessment at the Proposed Site of Gemsa Wind Power Station, South-western Coast of Gulf of Suez, Egypt. *Journal Geological Society of India*, Vol.89, February 2017, Pp.192-196.
- 55.**Mansour S. Alhumimidi, Hussein M. Harbi, Mohammed S. Alfarhan, [Kamal Abdelrahman](#) and Carlos L.V. Aiken (**2017**): Imaging fracture distributions of the Al-Khuff Formation outcrops using GPR and ERT geophysical techniques, Al-Qassim area, Saudi Arabia. *Arab J Geosci*, 10:306. DOI 10.1007/s12517-017-3059-0
- 56.**Hussain J. Alfaifi, Mohammed S. Abdelfatah, [Kamal Abdelrahman](#), Faisal K. Zaidi, Elkhedr Ibrahim and Nassir S. Alarifi (**2017**): Groundwater Management Scenarios for the Biyadh-Wasia Aquifer Systems in the Eastern Part of Riyadh Region, Saudi Arabia. *Journal Geological Society of India*, Vol.89, June 2017, pp.669-674
- 57.**[Kamal Abdelrahman](#), Mohammad Fnais, Enayat Abdelmonem, Khaled Magram, Abdullah Bin Saadoon (**2017**): Seismic vulnerability assessment in the new urban area of Diriyah Governorate, Riyadh, Saudi Arabia. *Arab. J. Geosci.* 10: 434. <https://doi.org/10.1007/s12517-017-3222-7>
- 58.**Abdullah Al Amri, [K. Abdelrahman](#), M.O. Andreea, and M. Al-Dabbagh (**2017**): Crustal and Upper Mantle Structures Beneath the Arabian Shield and Red Sea. Springer International Publishing AG 2017 F. Roure et al. (eds.), *Lithosphere Dynamics and Sedimentary Basins of the Arabian Plate and Surrounding Areas*, Frontiers in Earth Sciences, DOI 10.1007/978-3-319-44726-1\_1
- 59.**Maher Aldahri, Mahmoud El-Hadidy, Hani Zahran, Kamal Abdelrahman (**2018**): Seismic microzonation of Uhbur district, Jeddah, Saudi Arabia, using H/V spectral ratio. *Arabian Journal of Geosciences* 11:113 <https://doi.org/10.1007/s12517-018-3415-8>
- 60.**[Kamal Abdelrahman](#), Abdullah Al-Amri, Naif Al-Otaibi, Mohammed Fnais and Enayat Abdelmonem (**2019**): Ground motion acceleration and response spectra of Al-Mashair area, Makkah Al-Mukarramah, Saudi Arabia. *Arabian Journal of Geosciences*, 12:346, <https://doi.org/10.1007/s12517-019-4526-6>
- 61.**Sattam Almadani, Elkhedr Ibrahim, Mahfooz Hafez, Hussain Alfaifi, Talal Alharbi, [Kamal Abdelrahman](#), Essam Abdel-Motaal (**2018**): Geotechnical investigation of the El-Elb dam site, northwest Riyadh, Saudi Arabia, using 2D resistivity and ground-penetrating radar techniques. *Arabian Journal of Geosciences* (2018) 11: 33 <https://doi.org/10.1007/s12517-017-3353-x>
- 62.**Elkhedr Ibrahim & Hosni Ghazala & Eslam Elawadi & Hussain Alfaifi & [Kamal Abdelrahman](#) (**2019**): Structural depocenters control the Nubian sandstone aquifer, Southwestern Desert, Egypt: inferences from aeromagnetic data. *Arabian Journal of Geosciences*, 12:335, <https://doi.org/10.1007/s12517-019-4492-z>.
- 63.**Hussain Alfaifi & Ali Kahal & Abdulaziz Albassam & Elkhedr Ibrahim & [Kamal Abdelrahman](#) & Faisal Zaidi & Saad Alhumidan (**2019**): Integrated geophysical and hydrochemical investigations for seawater intrusion: a case study in southwestern Saudi Arabia. *Arabian Journal of Geosciences*, 12:372. <https://doi.org/10.1007/s12517-019-4540-8>
- 64.**Sattam Almadani, Elkhedr Ibrahim, Abdullah Al-Amri, Mohammed Fnais and [Kamal Abdelrahman](#) (**2019**): Delineation of a fractured granite aquifer in the Alwadeen area, Southwest Saudi Arabia using a geoelectrical resistivity survey. *Arabian Journal of Geosciences*, 12:449. <https://doi.org/10.1007/s12517-019-4646-z>
- 65.**Jianzhong Ma, Christoph Brühl, Qianshan He, Benedikt Steil, Vlassis A. Karydis, Klaus Klingmüller, Holger Tost, Bin Chen, Yufang Jin, Ningwei Liu, Xiangde Xu, Peng Yan, Xiuji Zhou, [Kamal Abdelrahman](#), Andrea Pozzer, and Jos Lelieveld (**2019**): Modeling the aerosol chemical composition of the tropopause over the Tibetan Plateau during the Asian summer monsoon. *Atmos. Chem. Phys.*, 19, 11587–11612, 2019; <https://doi.org/10.5194/acp-19-11587-2019>
- 66.**Maan Al-Gain, [Kamal Abdelrahman](#), Ali Kahal, Saleh Al-Zahrani, Elkhedr Ibrahim, Naif Al-Otaibi (**2020**): Impact of 5D regularization and interpolation on subsurface imaging: *A case study of Stratton Field, south Texas, United States of America*. <https://doi.org/10.1016/j.jksus.2020.06.009>
- 67.**Sattam A. Almadani & [Kamal Abdelrahman](#) & Fahad I. bin Mansour (**2020**): Site response assessment and ground conditions at King Saud University Campus, Riyadh City, Saudi Arabia. *Arabian Journal of Geosciences*, 13:357, <https://doi.org/10.1007/s12517-020-05378-8>
- 68.**Abdullah M. Al-Amri & [Kamal Abdelrahman](#) & Robert Mellors & David Harris (**2020**): Seismic identification of geothermal prospecting in Harrat Rahat, Northern Arabian Shield. *Arabian Journal of Geosciences* (2020) 13:314 <https://doi.org/10.1007/s12517-020-05300-2>

- 69.**Abdullah M. Al-Amri & [Kamal Abdelrahman](#) & Robert Mellors & David Harris (**2020**): Geothermal potential of Harrat Rahat, Northern Arabian Shield: geological constraints. *Arabian Journal of Geosciences* (2020) 13:268 <https://doi.org/10.1007/s12517-020-5254-7>
- 70.**Saad Mogren, Maher Aldahri, [Kamal Abdelrahman](#), Hani Zahran (**2020**): Near-surface foundation level assessment from seismic measurements: a case study of north Jeddah City, Saudi Arabia. *Arabian Journal of Geosciences*, 13:233 <https://doi.org/10.1007/s12517-020-5233-z>
- 71.**[Kamal Abdelrahman](#), Abdullah Alamri, Naif Al-Otaibi, Mohammed Fnais (**2020**): Geotechnical assessment for the ground conditions in Makah Al-Mukarramah city, Saudi Arabia. *Journal of King Saud University – Science*. <https://doi.org/10.1016/j.jksus.2020.02.011>
- 72.**Hussain Jaber Alfaifi, Ali Yahya Kahal, [Kamal Abdelrahman](#), Faisal Kamal Zaidi, Abdulaziz Albassam & Aref Lashin (**2020**): Assessment of groundwater quality in Southern Saudi Arabia: case study of Najran area. *Arabian Journal of Geosciences*, 13:101 <https://doi.org/10.1007/s12517-020-5109-2>
- 73.**Abdullah M. Alamri & Abdalaziz Bankher & [Kamal Abdelrahman](#) & Mahmoud El-Hadidy & Hani Zahran (**2020**): Soil site characterization of Rabigh city, western Saudi Arabia coastal plain, using HVSR and HVSR inversion techniques. *Arabian Journal of Geosciences*, 13:29 <https://doi.org/10.1007/s12517-019-5027-3>
- 74.**Syed Mamoon Siyar, Muhammad Zafar, Samina Jahandad, Tahseenullah Khan, Fayaz Ali, Sajjad Ahmad, Mohammed S. Fnais, [Kamal Abdelrahman](#), Mohammad Javed Ansari (**2021**): Hydrocarbon generation potential of Chichali Formation, Kohat Basin, Pakistan: A case study. *Journal of King Saud University – Science*, 33 (2021) 101235
- 75.**[Kamal Abdelrahman](#), Naif Al-Otaibi, Elkhedr Ibrahim (**2021**): Assessment of land subsidence as an environmental threat facing Dammam city, eastern Saudi Arabia based on soil geotechnical parameters using downhole seismic approach. *Journal of King Saud University – Science*, 33 (2021) 101233
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- 157.** Stephen E. Ekwok, Anthony E. Akpan, Ogiji-Idaga M. Achadu, Cherish E. Thompson, Ahmed M. Eldosouky, [Kamal Abdelrahman](#) and Peter András ([2022](#)). Towards Understanding the Source of Brine Mineralization in Southeast Nigeria: Evidence from High-Resolution Airborne Magnetic and Gravity Data. *Minerals* 2022, 12, 146. <https://doi.org/10.3390/min12020146>
- 158.** Ahmed M. Eldosouky, Luan Thanh Pham, [Kamal Abdelrahman](#), Mohammed S. Fnais, David Gomez-Ortiz ([2022](#)). Mapping structural features of the Wadi Umm Dulfah area using aeromagnetic data. *Journal of King Saudi University – Science* 34 (2022) 101803
- 159.** Ismail Chaaou, Lahcen Kabiri, Badre Essafraoui, Ali Charroud, Hicham Si Mhamdi, Mohamed Abiou, Kamal Abdelrahman, Carlos Neto de Carvalho and Mohammed S. Fnais ([2022](#)). Lithostratigraphic, Paleoenvironmental Characterization and Correlations of the Albian–Turonian Deposits of the Errachidia–Boudnib–Erfoud Basin (Southeast Morocco). *Appl. Sci.* 2022, 12, 11048. <https://doi.org/10.3390/app122111048>

## **Abstracts in Conferences**

1. Hussain J Alfaifi, Saad M Alhumidan, ElKhedr E Ibrahim and [Kamal Abdel Rahman](#) ([2015](#)): Hydrogeochemistry and Groundwater Quality Assessment along Wadi Al-Shwat, Khamis Mushiet District, Southwest Saudi Arabia. *AGU Fall Meeting, San Francisco*, 14-18 December.
2. Hussain J. Alfaifi, Ali Y Kahal, El- Khedr E. Ibrahim, [Kamal Abdel Rahman](#) and Saad M. Alhumidan ([2016](#)): Integrated geophysical investigation to assess seawater intrusion into the coastal aquifer in the southwest of Saudi Arabia. *AGU Fall Meeting, San Francisco*, 12-16 December.
3. [Kamal Abdelrahman](#) and Abdullah Bin Saadoon ([2017](#)): Site characterization using seismic refraction tomography survey: Case study of Diriyah new urban area, Northwest Riyadh City, Saudi Arabia. *International Conference on Engineering Geophysics, 9-12 October 2017, United Arab Emirates University, Al Ain, UAE*.
4. Hamad Al Rajeh, [kamal Abdelrahman](#) and Elkhedr Ibrahim ([2017](#)): Groundwater exploration using vertical electrical sounding: Case study of Al-Amar region, southwest Riyadh, Saudi Arabia. *International Conference on Engineering Geophysics, 9-12 October 2017, United Arab Emirates University, Al Ain, UAE*.
5. Fahad Al-Mansour, [kamal Abdelrahman](#) and Sattam Almadani ([2017](#)): Site response and vulnerability index estimation for King Saud University Compound, Riyadh, Saudi Arabia. *International Conference on Engineering Geophysics, 9-12 October 2017, United Arab Emirates University, Al Ain, UAE*.
6. [kamal Abdelrahman](#), Abdullah M. Al-Amri, Naif A. Al-Otaibi , Enayat Abdelmonem and Mohammed Fnais ([2017](#)): Seismic hazard assessment for Al Mashair area, Makkah Al-Mukaramah city, Saudi Arabia. *International Conference on Engineering Geophysics, 9-12 October 2017, United Arab Emirates University, Al Ain, UAE*.

7. Alfaifi, H.; Alhumidan, S.; Kahal, A. Y.; [kamal Abdel Rahman](#); Al-Qadasi, B. (2017): Environmental Impact Assessment of Dumpsite: Case Study from south-western Saudi Arabia. [American Geophysical Union \(AGU\)](#), Fall Meeting 2017, abstract # NS23A-0010, New Orleans, Louisiana, 11-15 December.
8. Alfaifi, H. J.; [Abdel Rahman, K.](#); Ibrahim, E.; Kahal, A. Y.; Zaidi, F.; Alhumidan, M.; Alotibi, N. M. (2018): Groundwater Quality Assessment in Southern Saudi Arabia Using Physico-Chemical Water Analysis. [American Geophysical Union \(AGU\)](#), Fall Meeting 2018, abstract #H23I-2003, 10-14 December 2018, New Orleans, Louisiana.

### **Research Projects:**

- 1- "Seismic Microzonation and Site Effect Response of Dammam and Alkhobar Cities – Eastern Saudi Arabia", 2011-2013, supported by National Plan for Science, Technology and Innovation, Saudi Arabia
- 2- "Environmental hazard assessment of Makkah region from seismic microzoning and soil effect responses", 2014- 2016, supported by National Plan for Science, Technology and Innovation, Saudi Arabia.
- 3- **Principle Investigator** of the research project “Site effect and microzonation of Jizan coastal area for Earthquake Hazard Assessment”, supported by National Plan for Science, Technology and Innovation, Saudi Arabia.
- 4- **Principle Investigator** of the research project “Seawater intrusion detection in the Rabigh-Yanbu coastal aquifers, Saudi Arabia, using integrated Geophysical and Geochemical techniques”, supported by National Plan for Science, Technology and Innovation, Saudi Arabia.

### **Local & International Training Courses**

- Oct. 1993 - Jan. 1994: Computer courses from Zagazig University, Zagazig, Egypt.
- March 1994 - July 1994: Deutsche courses in Goethe Institute, Cairo, Egypt.
- 3. Feb. 1998 - March 1998: Computer courses at Centre of Preparing Leaders for Governmental Sector (P.L.G.S.), Cairo, Egypt.
- 4. Sept. 15– Oct. 31, 1995: International training course on seismology and earthquake engineering for African and Arab countries, NRIAG, Cairo, Egypt.
- 6. Nov. 15 - 17, 1999: 7<sup>th</sup> International Training course for Earthquake Engineering, Faculty of Engineering, Cairo Univ., Cairo, Egypt.
- 7. April 18-26, 2002: Training course on the use of **FRISKSP**- Program for evaluating seismic hazard organized by UNESCO Cairo office and the National Research Institute of Astronomy and Geophysics, **Cairo** (NRIAG).
- Oct-1 Nov., 2001. Solaris UNIX. System Administration, Egyptian National Scientific & Technical Network "ENSTINET", **Cairo**, Egypt.
- 21 July- 24 Aug. 2002. International Training course on Seismology, Seismic Data Analysis, Seismic Hazard Assessment and Risk Mitigation, Potsdam, **Germany**.
- 1<sup>st</sup> September – 15 October 2003: International training course on seismology and earthquake Engineering. Seismomlogical Bureau of Yunnan Province, **China**.
- 24-27 April 2006: International Workshop on "Seismicity and Earthquake Engineering in the extended Mediterranean Region", Valletta, **Malta**.
- 7-8 December 2007: International Workshop on "Earthquake Hazards and Mitigations (EHAM-2007)", Guwahati, **India**.
- 24-28 June 2008: International workshop for Seismic Early warning for Europe (**SAFER**), Istanbul, **Turkey**.
- 6-12 Feb. 2012: International workshop for the "determination of seismic noise characteristics using portable seismic recording instruments". Las Vegas, Nevada, **USA**
- 28-28 March 2017 "Reference citation using the EndNote" workshop, Deanship of Skills Development, King Saud University, **Riyadh**, KSA.

### **Local & International conferences**

- Annual Scientific Conferences of National Research Institute of Astronomy and Geophysics (NRIAG), Helwan, **Cairo**, (1996, 1998 and 2000, 2002, 2004, 2006).
- 1<sup>st</sup> international conference for environmental hazard mitigation, faculty of science, (environmental hazard mitigation centre), Cairo university, 9-12 September, **Cairo**, 2000.
- The 3<sup>rd</sup> Cairo international conference for earthquake engineering (preparedness and response), faculty of engineering, Cairo University, 18-20 Nov., **Cairo**, 2000.

- The 3<sup>rd</sup> international conference for earthquake resistant engineering structures. 4-6 Sept., Malaga, Spain, 2001.
- The 4<sup>th</sup> Cairo international conference for earthquake engineering, faculty of engineering, Cairo University, 6-8 Dec., Cairo, 2004.
- The 4<sup>th</sup> gulf seismic forum (GSF), Kuwait institute of scientific research, 24-27 March 2007, Kuwait.
- Symposium for disaster management and building safety for Arabian countries, 29 March -1 April, 2008, Riyadh, KSA.
- The 5<sup>th</sup> gulf seismic forum (GSF), Seismological Observatory Centre, Sana'a, 6-9 April, 2008, Yemen.
- The Arabian Conference of Geosciences, Saudi Society for Geosciences, 26 – 28 April 2011, Riyadh, KSA.
- The 7<sup>th</sup> gulf seismic forum (GSF), Saudi Geological Survey, Jeddah, 21-25 January 2012, KSA.
- The 10<sup>th</sup> Conference of Saudi Society for Geosciences, 26 – 28 April 2013, Dhahran, KSA
- 11<sup>th</sup> international geological conference of Saudi Society of Geosciences, 12-14 may, 2015, Riyadh, Saudi Arabia.
- 13.7<sup>th</sup> International Conference on Water Resources and arid environments, 4-6 December 2016 Riyadh, Saudi Arabia.
- 1<sup>st</sup> Middle East Geoscience Student Conference, 26 Feb.– 1 March 2017, United Arab Emirates University, Al Ain City, UAE

### **Grants, Awards and Scholarships**

- 2001: Two months, seismological observatory of Hungarian Academy of Sciences, Hungary.
- 2005: Three months, Yunnan Earthquake Administration, Yunnan Province, China.
- 2005: Six months Post-doctoral researches grant, GFZ, Potsdam, Germany.
- 2006: Five weeks, Yunnan Earthquake Administration (YEA), Yunnan Province, China.
- 2007: Two months, Yunnan Earthquake Administration (YEA), Yunnan Province, China.
- 2008: Six months Post-doctoral researches grant, GFZ, Potsdam, Germany.
- 2009: Six months Post-doctoral researches grant, GFZ, Potsdam, Germany.

### **Teaching Activities at Cairo University**

- 1- Post- graduate course in "Seismic hazard assessment and local site effect estimation", Structural Engineering Department, Faculty of Engineering, Cairo University, 2004/2005, 2005/2006 and 2006/2007 Academic years.

### **Supervision for M.Sc. and Ph.D. Thesis**

- Seismological Engineering Studies at El-Fayoum New City, Egypt, (2000). **M.Sc. Thesis**, Faculty of Science, Al-Azhar University, Cairo, Egypt.
- Site Effect on Ground Motion for Some New Urban Communities in the Northern Coast of Egypt to Mitigate the Seismic Hazard (2003). **Ph.D. Thesis**, Faculty of Science, Al-Azhar University, Cairo, Egypt.
- Detailed Microearthquakes study in Abu-Dabbab area, Eastern Desert, Egypt, (2003). **M. Sc. Thesis**, Faculty of Science, South Valley University, Qena, Egypt.
- Potential and Seismological Studies on the Nile Delta, Egypt (2004). **M. Sc. Thesis**, Faculty of Science, Zagazig University, Zagazig, Egypt.
- Geotechnical and site effect studies in Hurghada City, Red Sea, Egypt (2004). **M.Sc. Thesis**, Faculty of Science, Assuit University, Assuit, Egypt.
- Seismic Velocity Modeling and ground motion amplification at the 6<sup>th</sup> of October city using refraction seismic and microtremor measurements (2007). **Ph.D. Thesis**, Faculty of Science, Ain Shams University, Cairo, Egypt.
- "Seismic Microzonation of Farasan Island, southern Red Sea" (2012). **M. Sc. Thesis**, College of Science, King Saud University, Riyadh, Saudi Arabia (Finished)
- "Subsurface geologic structures at some concrete dams in Riyadh area (2014). **M. Sc. Thesis**, College of Science, King Saud University, Riyadh, Saudi Arabia (ongoing)
- "Geotechnical soil assessment for Baish Dam site, Jizan, Saudi Arabia" (2015). **M. Sc. Thesis**, College of Science, King Saud University, Riyadh, Saudi Arabia (ongoing)

### **Technical Consultations and Projects**

- Earthquake activity and Intensity survey after the occurrence of 22 Nov., 1995 Gulf of Aqaba earthquake (Magnitude = 6.9). Report delivered to the minister of scientific research, Dec. 1995.

- Shallow Seismic Investigation and seismic hazard assessment project for the area around SUMID- Pipeline (18-Km long), northeast Helwan City, Cairo Province. Report submitted to PERTOJET Company, [Aug. 1996](#).
- Seismicity and seismic Hazard assessment project for the proposed New Port Site, to the east of Port Said province. Report submitted to the Egyptian Electric Holding Company, Ministry of Electricity, & Energy, [Feb. 1999](#).
- Seismic hazard and Soil condition project around the Gas-pipe line within Dahshour area, Giza Province. Report submitted to Prof. Dr. Mohamed Sobaih, Faculty of Engineering, Cairo University, [May, 1999](#).
- Seismicity and seismic Hazard studies project for the proposed site for establishment the chemical industry factory. Report submitted to Chima-Group Company, Port Said Province, [March, 2000](#).
- Geotechnical and Seismic hazard Assessment project at the proposed site for Al-Nobariya Electric power plant (west Nile Delta area). Report submitted to Egyptian Electric Holding Company, Ministry of Electricity, & Energy, [Dec. 2000](#).
- Seismicity, geotechnical and seismic Hazard project for the proposed Sites for two factories of Pharmaceutical industries one in 6<sup>th</sup> of October City (Giza Province) and other in Heliopolis City (Cairo Province). Report submitted to Pfizer Pharmaceutical Company, [June, 2000](#).
- Determination of the vibration sources project for the administrative building of Helwan Portland Cement Company, Cairo. Report submitted to the Chief President of Helwan Portland Cement Company, [Dec., 2000](#).
- Earthquake activity, Strong Motion Seismology and Intensity survey for 11 Oct., 1999 Beni Suef Province (central part of Egypt) Earthquake (Magnitude = 4.9). Report delivered to the minister of scientific research, [Feb., 2001](#).
- Recent and Instrumental earthquake activities project around the Nuclear Power Plant station at the north-western coast of Egypt (El-Dabaa City, Matrouh Province). Report submitted to the Ministry of Electricity and Energy, [April, 2001](#).
- Geotechnical and Seismic Hazard Assessment project for Abu-Tartour Plateau in the southern part of Egypt (New Valley Province) and Fayed Plateau in the Eastern part of Egypt (Ismailiya Province). Report submitted to Ministry of Scientific Research, [June, 2001](#).
- Geotechnical and Seismic Hazard Assessment project for the Safaga Electric power station south of Hurghada City along Red Sea Coast. Report submitted to Egyptian Electric Holding Company, Ministry of Electricity, & Energy, [September, 2001](#).
- Earthquake activity, Strong Motion Seismology and Intensity survey for 12 June 2001 Earthquake (Magnitude = 4.9) at Dahshour area, Giza Province. Report delivered to the minister of scientific research, [Dec., 2001](#).
- Earthquake Swarms from 15 Aug. - 2 Sept. 2001, at Shedwan Island, northern Red Sea region. Report delivered to the minister of Scientific research, [June 2002](#)
- Study of effects of Cement Quarry Blasts on some buildings of 15<sup>th</sup> of May city, Helwan, Cairo, Egypt. Report delivered to the chief president of both of Helwan & National Cement Companies ([March, 2005](#)).
- Study of the ambient ground vibration on the Meret Ramsis Statue at Tal Basta Archaeological area, Sharkia Province, Egypt. Report delivered to the Egyptian Higher Council for Archaeology, Cairo, Egypt ([Aug., 2005](#)).
- Study of ground cracking behind Room-7 in Zaafara-Koreimat pipeline. Report delivered to the Egyptian Company for Natural Gases (GASCO), [June, 2006](#).
- Microzoning of Greater Cairo area, June 2006 – June 2009 project funded from Fp6 ([European Union](#)), [June 2006- June 2009](#).

### **Scientific Membership (Organizations)**

- Member of the Saudi Society for Geosciences ([SSG](#)).
- Member of International Society for Explosive Engineers ([ISEE](#)), USA
- Member of the Egyptian Society for Earthquake Engineering ([ESEE](#)).
- Member of the Egyptian Geophysical Society ([EGS](#)).
- Member of the Egyptian National Seismic Network ([ENSN](#)).
- Member of the executive committee for Seismic eArly warning For EuRope ([SAFER](#)).
- Member of Enhancing of Earthquake Engineering Education ([4E](#)) project, faculty of Engineering, Cairo University, Egypt.
- Member of the Society of Exploration Geophysical ([SEG](#))

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