

## CURRICULUM VITAE



**Name:** Kamal Abdel-Rahman ElSayed Hassanein.

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

**Nationality:** Egyptian.

**Present Address:** Geology and Geophysics Department, College of Science, King Saud University, Riyadh, Saudi Arabia

**E-Mail:** khassanein@ksu.edu.sa & Ka\_rahmaneg@yahoo.com

**Present Occupation:** Professor, Geology and Geophysics Dept., King Saud University, Riyadh, KSA.

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

### Education

- 1- **May 1990: B.Sc.** in Geology (grade: very good), Geology Department, Faculty of Science, Zagazig University, Egypt.
- 2- **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.
- 3- **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

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

### Research Interests

- Seismic hazard assessment (probabilistic, deterministic and stochastic approaches).
- Site effect estimation (shallow seismic refraction, microtremors, bore-hole logs, ground penetrating radar [**GPR**]).
- Seismic microzoning studies.
- Monitoring of vibration characteristics for buildings, bridges and archaeological monuments (using 12-channel accelerographs [**Altus K<sub>2</sub>**-model, Kinometrics]) .
- Monitoring of ground vibrations resulting from quarry blasts in cement manufacturing.

### LIST OF PUBLICATIONS

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(ξ), 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. M. Fnais & A. Al-Amri & [Kamal Abdelrahman](#) & K. Al-Yousef & Omar allafouza Loni & Enayat Abdel Moneim (2014): Assessment of soil-structure resonance in southern Riyadh City, Saudi Arabia. *Arab J. Geosci*, DOI: 10.1007/s12517-013-1247-0.
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. M. Alharbi & M. Fnais & A. Al-Amri & [Kamal Abdelrahman](#) & Meinrat O. Andreae & 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.

46. 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
47. 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
48. 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
49. Muhammad Kamran Jafri, Arif Lashin, El-Khedr 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>.
50. Ahmed Mohamed Tawfik; 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
51. Fnais, M. Ibrahim, E., Abdel-Motaal, E., [Abdulrahman, K.](#) Al-Heniedi, A. and Al-Kahtany, Kh. (2016). Structural development of northwest Saudi Arabia using aeromagnetic and seismological data. *Journal of Earth Science*, December 2016, Volume 27, Issue 6, pp 998–1007.

## ❖ **RESEARCH ACTIVITIES IN KSA:**

- ◆ "Seismic Microzonation and Site Effect Response of Dammam and Alkhobar Cities – Eastern Saudi Arabia", *National Plan for Science and Technology, NPST, King Abdulaziz City for Science and Technology, KACST, 2011-2013 (Co-PI).*
- ◆ "Environmental hazard assessment of Makkah region from seismic microzoning and soil effect responses". *National Plan for Science and Technology, NPST, King Abdulaziz City for Science and Technology, KACST, 2014- 2016 (Co-PI).*
- ◆ "Seismic Risk Mitigation in Al-Madinah Al-Monawarah, Saudi Arabia, using Seismic Microzoning". *Saudi Geological Survey, 2015-2016 (Co-PI).*
- ◆ "Seismic Risk Mitigation for Compensation district in Al-Madinah Al-Monawarah, Saudi Arabia, using Seismic Microzoning". *Saudi Geological Survey, 2015-2016 (Co-PI).*



## Local & International Training courses

- 1- Oct. 1993 - Jan. 1994: Computer courses from Zagazig University, Zagazig, Egypt.
- 1- 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).
- 8-28 Oct-1 Nov., 2001. Solaris UNIX. System Administration, Egyptian National Scientific & Technical Network "ENSTINET", **Cairo**, Egypt.
- 9- 21 July- 24 Aug. 2002. International Training course on Seismology, Seismic Data Analysis, Seismic Hazard Assessment and Risk Mitigation, Potsdam, **Germany**.
- 10- 1<sup>st</sup> September – 15 October 2003: International training course on seismology and earthquake Engineering. Seismomological Bureau of Yunnan Province, **China**.
- 11- 24-27 April 2006: International Workshop on "Seismicity and Earthquake Engineering in the extended Mediterranean Region", Valletta, **Malta**.
- 12- 7-8 December 2007: International Workshop on "Earthquake Hazards and Mitigations (EHAM-2007)", Guwahati, **India**.
- 13- 24-28 June 2008: International workshop for Seismic Early warning for Europe (**SAFER**), Istanbul, **Turkey**.
- 14- 6-12 Feb. 2012: International workshop for the "*determination of seismic noise characteristics using portable seismic recording instruments*". Las Vegas, Nevada, **USA**

## Local & International conferences

52. **Annual Scientific Conferences** of National Research Institute of Astronomy and Geophysics (NRIAG), Helwan, **Cairo**, (1996, 1998 and 2000, 2002, 2004, 2006).
53. **1<sup>st</sup> international conference for environmental hazard mitigation**, faculty of science, (environmental hazard mitigation centre), Cairo university, 9-12 September, **Cairo**, 2000.
54. The **3<sup>rd</sup> Cairo international conference for earthquake engineering** (preparedness and response), faculty of engineering, Cairo University, 18-20 Nov., **Cairo**, 2000.
55. The **3<sup>rd</sup> international conference for earthquake resistant engineering structures**. 4-6 Sept., Malaga, **Spain**, 2001.
56. The **4<sup>th</sup> Cairo international conference for earthquake engineering**, faculty of engineering, Cairo University, 6-8 Dec., **Cairo**, 2004.
57. **The 4<sup>th</sup> gulf seismic forum (GSF)**, Kuwait institute of scientific research, 24-27 March 2007, **Kuwait**.
58. Symposium for disaster management and building safety for Arabian countries, 29 March -1 April, 2008, Riyadh, Saudi Arabia.
59. **The 5<sup>th</sup> gulf seismic forum (GSF)**, Seismological Observatory Centre, Sana'a, 6-9 April, 2008, **Yemen**.
- 9- **The Arabian Conference of Geosciences**, Saudi Society for Geosciences, 26 – 28 April 2011, Riyadh, **Saudi Arabia**.

- 10- **The 7<sup>th</sup> gulf seismic forum (GSF)**, Saudi Geological Survey, Jeddah, 21-25 January 2012, **Saudi Arabia**.
- 11- **The 10<sup>th</sup> Conference of** Saudi Society for Geosciences, 26 – 28 April 2013, Dhahran, **Saudi Arabia**.
- 12- The **11<sup>th</sup> international geological conference** of Saudi Society of Geosciences, 12-14 may, 2015, Riyadh, **Saudi Arabia**.
13. **The 7<sup>th</sup> international conference on Water Resources and Arid Environments** (ICWRAE 7), 4-6 December, 2016, Riyadh, **Saudi Arabia**.

### **Scientific Missions abroad**

- 1- Short visit for two months to the seismological observatory of Hungarian Academy of Sciences (14 Oct. – 18 Dec., 2001), **Hungary**.
- 2- Short visit for three months to the Yunnan Earthquake Administration (YEA), Yunnan Province, **P. R. of China** (March 15 - June 16, 2005).
- 3- Two months Post-doctoral research grant to GFZ, Potsdam, **Germany** (Oct. 1 – Nov. 30, 2005).
- 4- Short visit for Five weeks to the Yunnan Earthquake Administration (YEA), Yunnan Province, **China** (10 May – 5 June, 2006).
- 5- Short visit for two weeks to the Yunnan Earthquake Administration (YEA), Yunnan Province, **China** (15 – 30 January, 2007).
- 6- Three months Post-doctoral research grant to GFZ, Potsdam, **Germany** (March 14 – June. 13, 2008).
- 7- Three months Post-doctoral research grant to GFZ, Potsdam, **Germany** (May 27 – August 26, 2009).

### **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**

- 1- Seismological Engineering Studies at El-Fayoum New City, Egypt, (2000). **M.Sc. Thesis**, *Faculty of Science, Al-Azhar University, Cairo, Egypt*.
- 2- 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*.
- 3- Detailed Microearthquakes study in Abu-Dabbab area, Eastern Desert, Egypt, (2003). **M. Sc. Thesis**, *Faculty of Science, South Valley University, Qena, Egypt*.
- 4- Potential and Seismological Studies on the Nile Delta, Egypt (2004). **M. Sc. Thesis**, *Faculty of Science, Zagazig University, Zagazig, Egypt*.
- 5- Geotechnical and site effect studies in Hurghada City, Red Sea, Egypt (2004). **M.Sc. Thesis**, *Faculty of Science, Assuit University, Assuit, Egypt*.
- 6- 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*.
- 7- "**Seismic Microzonation of Farasan Island, southern Red Sea**" (2012). **M. Sc. Thesis**, *College of Science, King Saud University, Riyadh, KSA. (Finished)*

- 8- "Subsurface geologic structures at some concrete dams in Riyadh area (2014). *M. Sc. Thesis, College of Science, King Saud University, Riyadh, KSA. (ongoing)*
- 9- "Geotechnical soil assessment for Baish Dam site, Jizan, Saudi Arabia" (2015). *M. Sc. Thesis, College of Science, King Saud University, Riyadh, KSA. (ongoing)*

## **TECHNICAL CONSULTATIONS AND REPORTS**

**Sharing in both of Technical and Scientific Consultations submitted to different authorities as follows:**

1. 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.*
2. 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.*
3. 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.*
4. 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.*
5. 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.*
6. 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.*
7. 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.*
8. 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.*
9. 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.*
10. Recent and Instrumental earthquake activities project around the Nuclear Power Plant station at the northwestern coast of Egypt (El-Dabaa City, Matrouh Province). *Report submitted to the Ministry of Electricity and Energy, April, 2001.*
11. 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.*
12. Geotechnical and Seismic hazard Assessment project for the Safaga Electric power station south of Hurgada City along Red Sea Coast. *Report submitted to Egyptian Electric Holding Company, Ministry of Electricity, & Energy, September, 2001.*
13. 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.*
14. 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*



15. 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).*
16. 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).*
17. Study of ground cracking behind Room-7 in Zaafara-Koreimat pipeline. *Report delivered to the Egyptian Company for Natural Gases (GASCO), June, 2006.*
18. **Microzoning of Greater Cairo area**, June 2006 – June 2009 project funded from Fp6 (European Union), *June 2006- June 2009.*

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

- 1- Member in the Saudi Society for Geosciences (**SSG**).
- 2- Member in International Society for Explosive Engineers(**ISEE**), America
- 3- Member in the Egyptian Society for Earthquake Engineering (**ESEE**).
3. Member in the Egyptian Geophysical Society (**EGS**).
4. Member in the Egyptian National Seismic Network (**ENSN**).
5. Member in the executive committee for Seismic eArly warning For EuRope (**SAFER**).
6. Member in Enhancing of Earthquake Engineering Education (**4E**) project, faculty of Engineering, Cairo University, Egypt.
7. Member of the Society of Exploration Geophysical (**SEG**)

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