

DR. BASUONY EL-GARHY

Professor of Geotechnical Engineering and Foundations
Department of Civil Engineering



PERSIONAL DATA

Date of Birth:	March 3, 1966
Place of Birth:	Menoufia, Egypt
National ID:	26603031701273
Current Address:	Faculty of Engineering University of Tabuk P.O. Box 741, Tabuk 71491, KSA
Nationality:	Egyptian
Religion:	Islam
Marital State:	Married
Office Phone:	(+966) 44272172 ext: 2844 KSA
Mobile:	(+966) 548188134 KSA
Mobile:	(+20) 1016023536 Egypt
E-mail:	belgarhy@ut.edu.sa
ORCID ID	https://orcid.org/0000-0003-0635-120X
Website	https://www.ut.edu.sa/web/u54708
WoS ResearcherID	https://www.webofscience.com/wos/author/record/AAK-2372-2021
Scopus ID:	6506846157
Google Scholar	https://scholar.google.com/citations?user=jM6YFGMAAAAJ&hl=en
Research gate	https://www.researchgate.net/profile/Basuony_El-Garhy2

EDUCATION

Ph.D.	1999	Menoufia University-Egypt/Ohio University-USA (i.e., Channel System: 2-year in Menoufia University under Egyptian advisor and 2-year in Ohio University under USA advisor) <u>Geotechnical Engineering</u>
M.Sc.	1994	Menoufia University-Egypt <u>Geotechnical Engineering</u>
B.Sc.	1989	Menoufia University-Egypt (Grade: Very Good) <u>Civil Engineering</u>

Ph.D. DISSERTATION TITLE

Soil Suction and Analysis of Raft Foundation Resting on Expansive Soils

M.Sc. THESIS TITLE

Design Parameters of Raft Foundation on Swelling Soil

PROFESSIONAL EXPERIENCE (ACADEMIC)

July 2020 - Present	Professor, Civil Engineering Department, University of Tabuk, Tabuk, KSA
October 2014 – June 2020	Chairman of Civil Engineering Department, University of Tabuk, Tabuk, KSA (ABET-Accredited since August 2018)
October 2010 - Sept. 2014	Professor, Civil Engineering Department, University of Tabuk, Tabuk, KSA
Sept. 2008 – Sept. 2010	Associate Professor, Civil Engineering Department, University of Tabuk, Tabuk, KSA
Sept. 2006 – August 2008	Associate Professor, Civil Engineering Department, University of Science and Technology, Sana'a, Yemen
July 2004 – Sept. 2006	Associate Professor, Civil Engineering Department, Menoufia University, Egypt
April 1999 – June 2004	Assistant Professor, Civil Engineering Department, Menoufia University, Egypt
April 1994 – August 1996	Assistant Lecturer, Civil Engineering Department, Menoufia University, Egypt

VISITING POSITIONS

Sept. 1996 – Sept. 1998	Visiting Scholar at Ohio University, USA, where I completed two years of Ph.D. dissertation research under the supervision of a U.S. advisor.
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OTHER WORK EXPERIENCE

April 1992 – March 1994	Civil Engineer and Supervisor, General Authority for Educational Buildings, Menoufia Branch, Egypt.
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COURSES TAUGHT

UNIVERSITY OF TABUK, KSA

Undergraduate:

- Introduction to engineering design (1)
- Engineering drawing and graphics
- Structural analysis (1)
- Reinforced Concrete (1)
- Engineering Geology
- Geotechnical engineering (1)
- Geotechnical engineering (2)
- Improvement of soil properties
- Foundation engineering
- Foundation on problematic soils
- Earthquake Engineering

MENOUFIA UNIVERSITY, EGYPT

Undergraduate:

- Soil mechanics,
- Soil mechanics and Foundations,
- Foundations engineering
- Selected topics in Geotechnical engineering
- Engineering Geology,
- Theory of structures,
- Civil Engineering drawing
- Computer language-FORTRAN,
- Computer applications,
- Graduation projects in the field of Geotechnical engineering.

Postgraduate:

- Foundations on problematic soils,
- Soil-structure interaction,
- Improvement of soil properties.

UNIVERSITY OF SCIENCE AND TECHNOLOGY, YEMEN

Undergraduate:

- Soil mechanics (1),
- Soil mechanics (2),
- Foundations engineering (1)
- Foundations engineering (2)
- Engineering Geology,
- Design of hydraulic structures
- Graduation projects in the field of Geotechnical engineering.

UNIVERSITY AND COMMUNITY SERVICES

UNIVERSITY OF TABUK, KSA

March 2016 – Present	Member in the programs and study plans committee, Faculty of Engineering.
March 2014 – Present	Chairman of the programs and study plans committee, Civil Engineering Department.
May 2014 – 2016	Chairman of measurement and evaluation unit. Faculty of Engineering
Jan. 2010 – Sep 2012	Chairman of the academic accreditation committee, Faculty of Engineering.
Sep 2010 – Sep 2012	Member in the Scientific Council of the University
Dec. 2011 – Sep 2012	Chairman of the Promotion Committee, Faculty of Engineering
March 2010 – Sep 2012	Chairman of the unit of scientific researches and community services, Faculty of Engineering.
Sept. 2008 – Sep 2012	Member in the committee of plans and Curriculums, Faculty of Engineering.
Jan. 2009 – 2012	Member in the consulting engineering committee for university structures

UNIVERSITY OF SCIENCE AND TECHNOLOGY, YEMEN

Sept. 2007 – August 2008	Chairman of curriculums committee, Faculty of Engineering
Sept. 2006 – August 2008	Chairman of the examination committee, Civil Engineering Department.
Sept. 2006 – August	Member in the unit of quality assurance and accreditation, Faculty of Engineering

MENOUFIA UNIVERSITY, EGYPT

Sept. 2005 – August 2006	Member in the libraries committee, Faculty of Engineering
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Sept. 2000 – August 2006 Member in the curriculums committee, Civil Engineering Department.

Sept. 2000 – August 2006 Member in the examination committee, Civil Engineering Department.

COMMUNITY SERVICES

Introduce consulting services in the field of civil engineering and more specifically in the field of geotechnical engineering and foundations for the community.

GRADUATE STUDENT THESIS ADVISOR

Ph.D'S DEGREES AWARDED

Name	Awarded date	Dissertation title	Awarded University
Ahmed Abdel-Galel	Nov. 2008	Rational Analysis of Piled Raft Foundation	Menoufia University, Egypt
Magdy Maraie	Nov. 2008	Bearing Capacity and Settlement of Soft Soil Reinforced By Columnar Elements	Menoufia University, Egypt
Mahmoud El-Nagar	July 2009	Static and Dynamic Analysis of Cellular Raft Foundation	Menoufia University, Egypt

MASTER'S DEGREES AWARDED

Name	Awarded date	Thesis title	Awarded University
Safieuddin Abdel-Hady Safieuddin	March 2005	Settlement Analysis of Vertically Loaded Free Standing Pile Groups	Menoufia University, Egypt
Karem Roshdy Aboel-Ela	Dec. , 2006	Evaluation of the Analysis Methods of Dewatering Systems	Menoufia University, Egypt
Talat Ali Ahamed	Dec., 2006	Finite Element Analysis of Rigid Concrete Pavement	Menoufia University, Egypt
Ibrahim Shalaby	Feb. 2009	Experimental Study of Laterally Loaded Pile Groups with Pile Caps at Different Elevations	Menoufia University, Egypt

EXAMINER FOR DISSERTATION AND THESIS

Ph.D. DISSERTATIONS

Name	Exam date	Dissertation title	Awarded University
Ahmed Abdel-Galel	Nov. 2008	Rational Analysis of Piled Raft Foundation	Menoufia University, Egypt
Magdy Maraie	Nov. 2008	Bearing Capacity and Settlement of Soft Soil Reinforced By Columnar Elements	Menoufia University, Egypt
Mahmoud El-Nagar	July 2009	Static and Dynamic Analysis of Cellular Raft Foundation	Menoufia University, Egypt
Mohamed F.R. Abas	May 2016	Multidimensional Hydromechanical Behavior of Compacted Highly Expansive Soil	King Saud University, KSA

M.Sc. THESIS

Name	Exam date	Thesis title	Awarded University
Safieuddin Abdel-Hady Safieuddin	March 2005	Settlement Analysis of Vertically Loaded Free Standing Pile Groups	Menoufia University, Egypt
Karem Roshdy Aboel-Ela	Dec. , 2006	Evaluation of the Analysis Methods of Dewatering Systems	Menoufia University, Egypt
Talat Ali Ahamed	Dec., 2006	Finite Element Analysis of Rigid Concrete Pavement	Menoufia University, Egypt
Ibrahim Shalaby	Feb. 2009	Experimental Study of Laterally Loaded Pile Groups with Pile Caps at Different Elevations	Menoufia University, Egypt

RESEARCH SUPPORT

Name of applicants	Title of proposal, Funding source	Amount	Date
Basuony El-Garhy	Poor Drainage Problems with Foundations Resting on Expansive Soils, Library research submitted to TECH-CON SYSTEM, INC. 57362 ALLEN ROAD, SLIDELL, LA 70461, USA.	\$1000	1997-1998
Abdel-Fattah Youssef, Basuony El-Garhy, and Khalid El-Hosieny.	A Study on Expansive Soil in Egypt, Academy of Scientific Research and Technology, Egypt	\$5000	2003-2004

Attiyah Al-Atawi, Basuony El-Garhy, Hasan Awad, Mahmoud Abel-Shafi	Building the faculty of engineering academic courses based on the criteria's of accreditation, Deanship of Scientific Research, University of Tabuk, KSA	\$25000	2008-2009
Basuony El-Garhy, Fahmy Asal, and Tarek Ragab	Developing Computer Aided Learning Package For Teaching Geotechnical Engineering I Course, Deanship of Scientific Research, University of Tabuk, KSA	\$13500	2012-2013
Basuony El-Garhy	Computer program for analysis of raft on settlement reducing piles, Deanship of Scientific Research, University of Tabuk, KSA	\$4750	2014-2015
Basuony El-Garhy and Mohamed Elsayy	Analysis of strip footings resting on weak soil reinforced by stone columns, Deanship of Scientific Research, University of Tabuk, KSA	\$6350	2015-2016
Mohamed Elsayy and Basuony El-Garhy	Behavior of Raft Foundation Constructed on Soft Soil Reinforced with Granular Piles, Deanship of Scientific Research, University of Tabuk, KSA	\$6350	2015-2016
Basuony El-Garhy	Analysis of composite piled raft foundation for coastal buildings resting on weak soils along the Red Sea coast of Saudi Arabia, Deanship of Scientific Research, University of Tabuk, KSA	\$6100	2019-2020
Turki S. Alahmari and Basuony El-Garhy	A rational approach to the design of a foundation system for lightweight structures resting on expansive soil in the Tabuk area, Deanship of Scientific Research, University of Tabuk, KSA	\$6650	2022-2023
Mohamed Abu Ali, Basuony El-Garhy, Ahmed Boria, Wael Alrashed, and Hassan Wedaa	The hidden disaster: Expansive soils-practical recommendations for Saudi Building Code in the light of Saudi Arabia's vision-2030, Deanship of Scientific Research, University of Tabuk, KSA	\$18600	2022-2023

PROFESSIONAL SOCIETY MEMBERSHIP

- International Society for Soil Mechanics and Geotechnical Engineering - Member
- Egyptian Geotechnical Society - Member
- Egyptian Engineering Syndicate – Member

PROFESSIONAL REGISTRATIONS

- Registered Professional Engineer in the field of Geotechnical Engineering, Egypt
- (Dec. 2004 - present)
- Registered Civil Engineer, Egypt (1989 - present)

SCHOLARLY ACTIVITIES

EDITORIAL BOARD MEMBER

- The proposed Tabuk Journal of Science and Sustainable Technologies (UTJSST), Editor
- Journal of Engineering and Technology Research, Scientia Research Library (The honorary members of editorial board)

REVIEWER FOR PROFESSIONAL JOURNALS:

- International Journal for Numerical and Analytical Methods in Geomechanics, John Wiley & Sons.
- International Journal of Geomechanics, ASCE.
- Soils and Foundations, Japanese Geotechnical Society, Elsevier
- Journal of Rock Mechanics and Geotechnical Engineering, The Journal of the Institute of Rock and Soil Mechanics, Chinese Academy of Sciences, Elsevier
- Geotechnical and Geological Engineering, an International Journal, Springer
- Construction and Building Materials, an International Journal, Elsevier
- American Journal of Civil Engineering, Science Publishing Group, SciencePG
- International Journal of Engineering Researches and Technology, ESRSA publication
- Journal of the Engineering Researches, Faculty of Engineering, Menoufia University, Egypt

- International Conference on Ground Improvement and Ground Control (ICGI 2012), 30 Oct. – 2 Nov. 2012, University of Wollongong, Australia B. Indraratna, C. Rujikiatkamjorn and J S Vinod (editors)

PUBLICATIONS

REFEREED INTERNATIONAL JOURNAL PAPERS

1. El-Garhy, B.M, Boraey, A., and Abdel-Hady, S. (2025) “A Model Test Investigation into the Behavior of Vertically Loaded Pile Groups in Sand”, Submitted for possible publication in the International Journal of Civil Engineering
2. El-Garhy, B.M, Alahmari, T.S., and Abdel Galil, A. (2025) “A Procedure for Nonlinear Analysis of Laterally Loaded Single Piles and Pile Groups”, Civil Engineering Journal, 11(9): 3630-3652, <https://doi.org/10.28991/CEJ-2025-011-09-05>
3. Alahmari, T.S., El-Garhy, B.M. (2024) “Analysis of Inverted T-Section Strip Footing Resting on Expansive Soils”, KSCE Journal of Civil Engineering, 28, 3646–3661, <https://doi.org/10.1007/s12205-024-1427-3>
4. Abu-Ali, M., El-Garhy, B., Boraey, A., Alrashed, W., and Abdel-Daiem, H. (2024) “Estimating the Climate-Controlled Soil Parameters and the Distorted Mound Shape for Analysis of Stiffened Rafts on Expansive Soils”, Advances in Civil Engineering Volume 2024, Article ID 5599356, <https://doi.org/10.1155/2024/5599356>
5. Abu-Ali, M., El-Garhy, B., Boraey, A., Alrashed, W., El-Shami, M., Abdel-Daiem, H., and Alrefahi, B. (2024) “Behavior of Stiffened Rafts Resting on Expansive Soil and Subjected to Column Loads of Lightweight-Reinforced Concrete Structures”, Buildings 2024, 14(3), 588; <https://doi.org/10.3390/buildings14030588>
6. El-Garhy B. (2022) "A Simplified method for the nonlinear analysis of composite piled raft" Geotechnical and Geological Journal, An International Journal, Springer, 40(5): <https://doi.org/10.1007/s10706-022-02159-w>
7. El-Garhy B., and Abdel Galil, A. (2022) "A Method for nonlinear analysis of raft resting on multilayered heterogeneous soils", the International Journal of Geomechanics, ASCE, 22(6): [https://doi.org/10.1061/\(ASCE\)GM.1943-5622.0002381](https://doi.org/10.1061/(ASCE)GM.1943-5622.0002381)
8. El-Garhy B., Abdel Galil, A. and Mari, M. (2018) "Analysis of flexible raft resting on soft soil improved by granular piles considering soil shear interaction," Computers and Geotechnics, Elsevier, 94(2): 169-183.
9. El-Garhy B. and Elsayy M. (2017) "Effect of different parameters on the behavior of strip footing resting on weak soil improved by granular piles," International Journal of Geo-Engineering, Springer, (2017)8:4, pp 1-24.

10. Elsaywy, M. and El-Garhy B. (2016) "Behavior of Raft Foundation Resting on Improved Soft Soil with Conventional Granular Piles," *Journal of Scientific and Engineering Research*, 2016, 3(4):428-434
11. El-Garhy B. (2014) "Effect of different parameters on the behavior of uniformly loaded piled raft," *Journal of Engineering Research and Technology*, Vol. 2, No. 6, pp.13-35.
12. El-Garhy B., Abdel Galil, A., Youssef, A. and Abo Raia, M. (2013) "Behavior of Raft on Settlement Reducing Piles: Experimental Model Study," *Journal of Rock Mechanics and Geotechnical Engineering Elsevier*, 5(2013), 389-399.
13. El-Garhy, B. M., Ragab, T. and Asal, F., (2013), "A Computer Aided Learning Package for Teaching Geotechnical Engineering," *Electronic Journal of Geotechnical Engineering, EJGE*, Vol. 18[2013]/Bund.G, pp. 1437-1448.
14. El-Garhy B. (2013) "Load Settlement Behavior of Footings on Weak Soil Improved By Floating Granular Piles," *Journal of Engineering and Technology Research, Scientia Research Library*, Vol. 1, No. 1, pp.79-93.
15. El-Garhy, B. M., Maraie, M. and Youssef, A. A., (2011), "Behavior of Model Footings Resting on Soft Clay Reinforced by Floating Granular Piles: Experimental Study," *International Journal of Geotechnical Engineering*, Vol. 5, No. 4, pp. 415-424.
16. El-Garhy, B. M, El-Nemr, M., and Shalaby, I., (2009), "Effect of Pile Cap Elevation Below Ground Surface on Lateral Resistance of Pile Groups-Experimental Study," *International Journal of Geotechnical Engineering*, Vol. 3, No. 1, pp. 21-28.
17. El-Garhy, B. M. (2008) "Settlement of Footings Resting on Weak Soil Reinforced by a Group of Floating Granular Piles," *Soil Mechanics and Foundations, Journal of the Egyptian Geotechnical Society*, Vol. 19, Part II, December 2008.
18. El-Garhy, B. M., Youssef, A., and Roshdy, K., (2008), "Equations for Predicting Drawdown Curve of Partially Penetrating Artesian and Gravity Wells," *International Journal of Geotechnical Engineering*, Vol. 2, No. 3, pp. 265-276.
19. Wray, W. K., El-Garhy, B. M., and Youssef, A. A., (2005) "Three-Dimensional Model for Moisture and Volume Changes Prediction in Expansive Soils," *American Society of Civil Engineering, ASCE, Journal of Geotechnical and Geoenvironmental Engineering*, Vol. 131, No. 3, pp. 311-324.
20. El-Garhy, B. M., and Wray, W. K., (2004) "Method for Calculating the Edge Moisture Variation Distance," *American Society of Civil Engineering, ASCE, Journal of Geotechnical and Geoenvironmental Engineering*, Vol.130, No. 9, pp. 945-955.
21. El-Garhy, B. M., Youssef, A., and Roshdy, K. (2007), "Evaluation of Three Analysis Methods of Dewatering Systems," *Soil Mechanics and Foundations, Journal of the Egyptian Geotechnical Society*, Vol. 18, Part 2, pp. 1-15.

22. El-Garhy, B. M., El-Hamrawy, S., and Abdel-Wahed, T., (2007), "3D Finite Element Analysis of Rigid Airport Pavement-Parametric Study," *Soil Mechanics and Foundations, Journal of the Egyptian Geotechnical Society*, Vol. 18, Part 2, pp. 43-56.
23. Omran, W. M., and El-Garhy, B. M., (2007), "Calibrating and Evaluating Filter Paper Method for Determining Soil Moisture Characteristic Curve," *Journal of Agricultural Sciences, Mansoura University*, Vol. 32, No. 9, pp. 7171-7180.
24. El-Garhy, B. M., and Omran, W. M. (2007), "A New Equation for Simulating Soil Water Characteristic Curve," *Journal of Agricultural Sciences, Mansoura University*, Vol. 32, No. 10, pp. 9843-9860.
25. El-Garhy, B. M., (2002), "Rational Procedure for Calculating the Load Deflection Curve of Laterally Loaded Pile Group," *Soil Mechanics and Foundations, Journal of the Egyptian Geotechnical Society*, Vol. 13, Part 2, pp. 29-50.
26. El-Garhy, B. M., (2002), "Numerical Analysis of Vertically loaded Pile Groups Embedded in Multilayered Soils," *Soil Mechanics and Foundations, Journal of the Egyptian Geotechnical Society*. Vol. 13, Part 1, pp. 109-128.
27. El-Garhy, B. M., and Osman, M., (2002) "Winkler Coefficient for Beams on Elastic Foundation," *Engineering Research Journal, Menoufia University, Faculty of Engineering*, Vol. 25, No. 3, pp. 1-18.
28. El-Garhy, B. M., (2001), "The Effect of Different Soil Models on the Analysis of Strip Footings," *Soil Mechanics and Foundations, Journal of the Egyptian Geotechnical Society*, Vol. 12, Part 1, pp. 97-115.

REFEREED INTERNATIONAL CONFERENCE PAPERS

29. Maraie, M., El-Garhy, B. M. and Youssef, A. A., (2010), "Bearing Capacity of Footings Resting on Soft Clay Reinforced by Columnar Elements: Experimental Study" *Proceedings of the 7th Int. Conf. on Ground Improvement Techniques*, 23-25 June, Seoul, Korea, pp. 227-235.
30. El-Garhy, B. M. and Wray, W. K., (2006), "Investigation of a Leaking Water Line Beneath Residential Foundation on Expansive Soils," *Proceedings of the 4th International Conference on Unsaturated Soils*, April 4-6, Arizona, USA, *Geotechnical Special Publication No. 147*, ASCE, Vol. 1, pp. 367-378.
31. El-Garhy, B. M., Youssef, A. A., and Abdel-Hady, S., (2005), "Load settlement behavior of vertically loaded freestanding pile groups driven in sand," *Proceedings of the 11th International Colloquium on Structural and Geotechnical Engineering*, May 17-19, Ain Shams University, Cairo, Egypt, pp. E05GE03: 1-12
32. El-Garhy, B. M., (2003), "Evaluation of Volume Change Prediction Methods," *Proceedings of the 10th International Colloquium on Structural and Geotechnical Engineering*, April 22-24, Ain Shams University, Egypt, Vol. 4, pp. E03GE09-1-23

33. El-Garhy, B. M., (2001), "Finite Element Analysis of Laterally Loaded Piles," Proceedings of the 9th International Colloquium on Structural and Geotechnical Engineering, April 10-12, Ain Shams University, Cairo, Egypt, pp. 81.
34. El-Garhy, B. M., Youssef, A. A., and Wray, W. K., (2001), "Predicted and Measured Suction and Volume Changes in Expansive Soil," Proceedings of International Symposium on Suction, Swelling, Permeability and Structure of Clays, January 11-13, Shizuoka, Japan, pp. 55-64.
35. El-Garhy, B. M., Youssef, A. A., and Wray, W. K., (2000) "Comparison of Field Measured and Predicted Soil Suction and Volume Changes in Expansive Soil," Proceedings of the 1st International Conference on Geotechnical, Geoenvironmental Engineering and Management in Arid Lands, November 4-7, Al Ain, UAE, pp. 311-317.
36. El-Garhy, B. M., Youssef, A. A., and Wray, W. K., (2000), "Soil Suction and Analysis of Raft Foundation Resting on Egyptian Expansive Soils," Proceedings of The 8th Arab Structural Engineering Conference, October 21-23, Cairo, Egypt, Vol. 3, pp. 1123-1137.
37. El-Garhy, B. M., Wray, W. K., and Youssef, A. A., (2000), "Using Soil Diffusion to Design Raft Foundation on Expansive Soils," Proceedings of Sessions of Geo-Denver 2000, August 3-8, Denver, Geotechnical Special Publication No. 99, ASCE, pp. 586-602.
38. El-Garhy, B. M., Youssef, A. A., and Wray, W. K., (2000), "Using Soil Diffusion to Design Slab-on-ground Foundation on Expansive Soils," Asian Conference on Unsaturated Soils, May 18-19, Singapore, pp. 223-229.
39. Tayel, M. A., Youssef, A. A., and El-Garhy, B. M., (1995), "Analysis of Raft Foundation Resting on Expansive Soil," Proceedings Regional Conference for Africa on Soil Mechanics and Foundation Engineering, Cairo, Egypt, Vol. 2, pp. 523-533.

REFEREED REVIEW ARTICLE (PREPARED FOR THE PROMOTION OF ASSOCIATE PROFESSOR)

40. El-Garhy, B. M., (2004), "Measurements of Soil Suction and Its Applications for Unsaturated Soils," Review Article, The Scientific Permanent Committee for Structural and Construction Engineering, July 2003, Egypt, 88pp.

REPORTS

1. El-Garhy, B. M., (1997), "Poor Drainage Problems with Foundations Resting on Expansive Soils," Library research submitted to TECH-CON SYSTEM, INC. 57362 ALLEN ROAD, SLIDELL, LA 70461, USA.
2. Al-atawi, A., Awad, H., El-Garhy, B., Elshakh, M. and Beshar, A. (2010) "A Study on Expansive Soil in Egypt," Academy of Scientific Research and Technology, Construction, Housing and New Settlements Code, (2003-2005)

3. Building the faculty of engineering academic courses based on the criteria's of accreditation, Deanship of Scientific Research (DSR), University of Tabuk, Tabuk, Saudi Arabia, Grant No. 17 / 50 / 1430 H, (2009-2010).
4. Developing Computer Aided Learning Package for Teaching Geotechnical Engineering I Course, Deanship of Scientific Research (DSR), University of Tabuk, Tabuk, Saudi Arabia, Grant No. S-1433-009 (2012-2013).
5. Computer program for analysis of raft on settlement reducing piles, Deanship of Scientific Research (DSR), University of Tabuk, Tabuk, Saudi Arabia, Grant No. S-1435H-0090 (2013-2014).
6. Analysis of strip footings resting on weak soil reinforced by stone columns, Deanship of Scientific Research (DSR), University of Tabuk, Tabuk, Saudi Arabia, Grant No. S-1436-121 (2014-2015).

CONFERENCES ATTENDED

1. The 1st National Conference of the Geo-Institute, ASCE (GeoLogan 97), July 15-19, 1997 Logan, Utah, USA.
2. The 2nd International Conference on Unsaturated Soils, August 27-30, 1998, Bejin, China.
3. Al-Azhar Engineering Sixth International Conference, September 1-4, 2000, Al-Azhar University, Cairo, Egypt.
4. The Eight Arab Structural Engineering Conference, October 21-23, 2000, Cairo University, Cairo, Egypt.
5. International Symposium on Suction, Swelling, Permeability and Structure of Clays, January 11-13, 2001, Shizuoka, Japan.
6. The 9th International Colloquium on Structural and Geotechnical Engineering, April 10-12, 2001, Ain Shams University, Cairo, Egypt.
7. the 3rd CRED Conference, September 22-24, 2001, Minoufiya University, Cairo, Egypt.
8. The 10th International Colloquium on Structural and Geotechnical Engineering, April 22-24, 2003, Ain Shams University, Cairo, Egypt.

INVITED LECTURES/SEMINARS:

"Foundations on Problematic Soils" Lecture, Civil Engineering Department, Menoufia University, Egypt. Jan. 15, 2000.

"Expansive Soils" Lecture, Civil Engineering Department, University of Science and Technology, Yemen. June 16, 2008.

"Contents of Course Binder" Lecture, Faculty of Engineering, University of Tabuk, KSA. October 24, 2010.

SHORT COURSES/WORKSHOPS PRESENTED:

"Foundations on Expansive Soils" Short course prepared for Civil Engineers, Engineering Syndicate in Menoufia, Egypt, May 18-19, 2005.

COUNSULTING

My consulting engineering practice has focused on geotechnical and structural engineering. Examples are: soil reports, design of shallow and deep foundations for different structures such as high rise buildings and bridges, design of foundations on problematic soils, design of sheet pile walls and dewatering systems, design of rigid pavement, design of underground tanks, and supervision on the construction of new buildings, buildings rehabilitation and foundation repairs. All of these consulting are through the following engineering centers.

April 1994 – August 1996 Oct. 1998 – August 2006	Engineering Researches and Consulting Center, Faculty of Engineering, Menoufia University, Egypt.
April 1994 – August 1996 Oct. 1998 – August 2006	The Engineering Consulting Center, Dr. Abdel-Fattah Youssef, Cairo, Egypt.
Jan. 2005 – August 2006	General Authority for Educational Buildings, Menoufia branch, Egypt
Sept. 2006 – August 2008	Engineering Researches and Consulting Center, Faculty of Engineering, University of Science and Technology, Yemen
Jan. 2009 - 2012	Consulting Engineering Committee for University Structures, University of Tabuk, KSA.

PROJECTS SAMPLES OF INVOLVEMENT

1. Member of the engineering consultant team for the construction of the Gneral library building of Menoufia University (Estimated Cost about 20 millions of Egyptian Pounds).
2. Member of the engineering consultant team for the construction of Menoufia University stadiums (Estimated cost about 50 millions of Egyptian Pounds).
3. Member of the engineering consultant team for the construction of Faculty of commerce at Sadat city, Menoufia University (estimated cost of about 20 millions of Egyptian Pounds)
4. Preparing soil reports for hundreds of new structures (e.g., schools, buildings of Menoufia University, private high rise buildings, and bridges).

5. Member in the engineering consultant team for the rehabilitation of Tala general hospital, Tala Menoufia (Estimated cost about 1.5 millions of Egyptian pounds)
6. Member in the engineering consultant team for the rehabilitation of Faculty of Education buildings at Sadat city, Menoufia University (Estimated cost about 2.0 millions of Egyptian pounds)