

Prof. ADEL AHMED DIF
CURRICULUM VITAE

GENERAL BIOGRAPICAL INFORMATION

Structural Engrg. Dept.,
El-Mansoura University
Faculty of Engineering,
El-Mansoura – EGYPT.



BIRTHDATE : December, 5 , 1957
CITIZENSHIP : Egypt
Married.

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ACADEMIC BACKGROUND

1. Hanover University, Germany and Mansoura University, Egypt, channel program, Ph.D. in Structural Engineering in Sept. 1990. Ph. D. thesis entitled "*Anisotropic Behavior of Cohesive Expansive Soil*".
2. El-Mansoura University, El-Mansoura, Egypt. M. Sc. in Structural Engineering in April 1986. M. Sc. thesis entitled "*Application of the Boundary Element Method in Soil Media with Multiple Tunnels/Cavities*".
3. El-Mansoura University, El-Mansoura, Egypt. B. Sc. in Civil Engineering with general grade of appreciation Excellent with Honor's Degree (ranked first among 550 students class) in May 1980.

LANGUAGES

- Arabic (speaking, reading)
- English (speaking, reading)
- German (speaking, reading)

PROFESSIONAL HISTORY

ACADEMIC EXPERIENCE

- 07/2001 – Present : Professor of Geotechnical Engineering, Structural Engineering Department, Faculty of Engineering, El Mansoura University, El-Mansoura, Egypt.
- 11/95 – 07/2001 : Associate Professor, Structural Engineering Department, Faculty of Engineering, El Mansoura University, El-Mansoura, Egypt.
- 11/90 – 11/95 : Assistant Professor, Structural Engineering Department, Faculty of Engineering, El Mansoura University, El-Mansoura, Egypt.
- 10/80 - 12/80 &
04/82 - 11/87 : Teaching Assistant, Structural Engineering Div., Civil Engineering Department, El-Mansoura University, El-Mansoura, Egypt.
- 2009 – 2011 : Dean, Faculty of Engineering, El Mansoura University, El-Mansoura, Egypt.

PROFESSIONAL EXPERIENCE

- 07/79 – 10/79 : Practical work in the extension and maintenance Dept. of the Water Supply System of the city of Athens, at the Society Anonyme Hellenique Des Eaux, Ilissia, Athens, Greece.
- 01/81 – 03/82 : Military service in the Egyptian Army.
- 11/86 – 12/86 : Training program on "Tunneling and Deep Excavations in Soil", by Prof. Dr. Z. EISENSTEIN, the University of Alberta, Canada, at the National Authority for Tunnels in Cairo, Egypt.
- 08/80 – 04/85 : Part-Time Senior Engineer in "Engineering Research and Consultation Bureau", Maadi, Cairo, and El-Mansoura, Egypt.
- 05/90 – Present : General Manager of Boden Consulting Engineers, El-Mansoura, Egypt.
- 10/90 – Present : Part-time Consultant Engineer in "Consulting and Research Office ", Faculty of Engineering, El-Mansoura University, El Mansoura, Egypt.
- 1993 – Present : General Supervisor of Soil Mechanics Laboratory Faculty of Engineering, El-Mansoura University, El Mansoura, Egypt.
- 1996 – Present : Consultant Engineer in Soil Mechanics and Foundation Design.
- 2002 – Present : General Supervisor of Centrifuge Laboratory Faculty of Engineering, El-Mansoura University, El Mansoura, Egypt.
- 2001 – 2007 : The Engineering Consultant for Dakahlia Governorate.

PROFESSIONAL SOCIETY MEMBERSHIPS

1. Egyptian Society of Civil Engineers, Member.
2. International Geotextile Society (IGS), Member.
3. American Society of Civil Engineers (ASCE) , Member.

SCHOLARSHIPS and HONORS

1. The International Association for the Exchange of Students for Technical Experience Fellowship, 1979.
2. Deutscher Akademischer Austauschdienst (DAAD) Fellowship, 1987- 1989.

ACADEMIC RESEARCH PROJECTS

1. *Study of Rising Ground Water Problem in Egyptian Cities and Villages*. Arab Republic of Egypt, Academy of Scientific Research and Technology, 2004, Member of the “Project Implementation Team”
2. *Use of Centrifuges as Educational Tools and Base for Virtual Laboratories in Civil Engineering*, Arab Republic of Egypt, Ministry of Higher Education, Project Management Unit (PMU), Higher Education Enhancement Project Fund, (**HEEPF**), 2004, Member of the “Project Implementation Team”

BOOKS:

- Soil Mechanics- part I;
- Soil Mechanics- part II;
- Foundation Design;
- Pile Foundations.

PUBLICATIONS :

1. **Dif, A.,** Abdellah, G. and Abdalla, M., "Study of Soil Media with Multiple Tunnels or Cavities using the Boundary Element Technique", *VI Australian Tunneling Conference, Melbourne, March 1987.*
2. **Dif, A.,** and Blumel, W., "Laboratory Evaluation of Lateral Swelling Pressure", Discussion in *Journal of Geotechnical Engrg., ASCE, Vol. 117, No. 9, 1991.*
3. **Dif, A.,** and Blumel, W., "Expansive Soils under Cyclic Drying and Wetting", *Geotechnical Testing Journal, ASTM, Vol. 2, 1991.*
4. Kishk, M., **Dif, A.,** Aggag, Y. and Mubarak, A. "Reinforced Embankments on soft Ground - A Comparative Study", *International Sym. on Applications of Geosynthetic Technology, Jakarta, Indonesia, November 23-24, 1992.*
5. Kishk, M., **Dif, A.;** Aggag, Y. and Mubarak, A. "Behavior of Reinforced Embankments Constructed Compressible Foundation soils", *Proc. the Fifth Arabic Conference of Structural Engineering, El-Fatih University, Libya, November, 1993.*
6. **Dif, A.;** and Kishk M., "Reinforced Embankments On Soft Soils - A Parametric Study", *Proc. of the Second Geotechnical Conference, Cairo University, Egypt, January, 1994.*
7. **Dif, A. E.,** "Analysis of a Replacement Layer Over Soft Soils", *Proc. Mansoura Engineering First Conference, 28-30 March, 1995, Faculty of Engineering, El-Mansoura University.*
8. **Dif, A.,** and Kishk, M., "Solution of Contact Problems Using the Finite Element Method", *Proc. Mansoura Engineering First Conference, 28-30 March, 1995, Faculty of Engineering, El-Mansoura University.*
9. El-Sharawy, K. A.; **Dif, A. E.,** and Hassanien, A., "The Ideal Design of Dewatering Networks", *Proc. Second Alexandria Conference on Structural and Geotechnical Engineering, 18-20 April, 1994, Faculty of Engineering, Alexandria University.*
10. **Dif, A. E.,** "Response of a Soft Clay Stratum Loaded by a Strip Footing", *Engineering Research Journal, Faculty of Engineering & Technology, Helwan University, Mataria, Cairo, Vol. 6, December, 1994.*
11. **Dif, A. E.,** "Features and Applications of Modern Triaxial Apparatuses", *Engineering Research Journal, Faculty of Engineering & Technology, Helwan University, Mataria, Cairo, Vol. 7, February, 1995.*
12. **Dif, A. E.;** El-Sawaf, M.; and Mahmoud, N. S., "Finite Element Analysis of Raft Foundations - A Parametric Study", *Engineering Research Journal, Faculty of Engineering & Technology, Helwan University, Mataria, Cairo, Vol. 7, February, 1995.*

13. El-Sawaf, M.; **Dif, A.**; Rabi, M.; Kassem, M.; and Mahmoud, N. , "Analysis of Raft Foundations Using a Simplified Technique", *the Sixth Arabic Conference of Structural Engineering, Syria, October, 1995.*

PUBLICATIONS Cont.:

14. Ibrahim, A., and **Dif, A.**, "Geotextile-Reinforced Earth Walls Constructed On Soft Soils", *Proc. of the Third Geotechnical Conference, Cairo University, Egypt, January, 1997.*
15. **Dif, A.**; Rageh, O. S.; and Sarhan, T. E., "Finite Element Analysis of The General Cargo Quay at Damietta Port", *Proc. The Second International Engineering Conference - Mansoura' 1997, 8-10 April, 1997, Faculty of Engineering, El-Mansoura University.*
16. **Dif, A.**, "Environmental Uses of Geotextiles", *Proc. 4th Interbuild Conference, Cairo, 26-30 June, 1997 (In Arabic).*
17. **Dif, A.**, "Non-Linear Finite Element Analysis of Reinforced Soil Walls", *Accepted for Publication in the Seventh Arabic Structural Engineering Conference, Kuwait, 24-26 November, 1997.*
18. **Dif, A.** and Farouk, A., "Soil-Rigid Raft Interaction - A Comparative Study", *Accepted for Publication in the Seventh Arabic Structural Engineering Conference, Kuwait, 24-26 November, 1997.*
19. Harraz, A. Meligy, M. and **Dif, A.** "Reliability Analysis of Tunnels", *Alexandria Engineering Journal, Faculty of Engineering, Alexandria University, Egypt, Vol. 37, No.6, November, 1998.*
20. Harraz, A. Meligy, M. and **Dif, A.** "Probabilistic-Based Codified Design of Tunnels", *Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, Egypt, Vol. 46, No.5, October 1999, PP. 853-872.*
21. **Dif, A.** and Seleam, S., "Groundwater level control under cities, the problem and the solution." , *The 2nd International Conference on Groundwater Control Level on Urbanized Areas, Mansoura University- Mansoura, Egypt. November, 1999.*
22. Mansour, S., **Dif, A.**, El Nimr, A. "Purification of Contaminated Groundwater Bodies", *The 2nd International Conference on Groundwater Control Level on Urbanized Areas, Mansoura University- Mansoura, Egypt. November 1999.*
23. El Nimr, A., **Dif, A.** and Mansour, S., " A three phase model for contaminated groundwater disinfection", *Proc. Of The 10th International Conference on Computer Methods and Advances in Geomechanics, Tucson, Arizona, USA, Vol. 1, pp. 801-805, 7-12 January, 2001.*
24. **Dif, A. S.**, "Non-linear finite element analysis of pile- soil – cap interaction", *Engineering Research Journal, Faculty of Engineering & Technology, Helwan University, Mataria, Cairo, Vol.74 , April 2001.*

25. Ibrahim, A., El Nimr, A., and Dif, A., “Effect of Percentage of Fines on Sand Liquefaction”, *III Regional Conference on Civil Engineering Technology, ACSE-EGS, Egypt Section, Cairo, Egypt , 8-10 April 2002.*

PUBLICATIONS Cont.:

26. El Nimr, A., Dif, A., and Ibrahim, A., “Effect of Percentage of Fines on Sand Liquefaction in Arid Regions”, *Geotechnical and Geoenvironmental Engineering in Arid Lands, Alawaji (ed.), 2002 Swets & Zeitlinger, Lisse, ISBN 90 5809 514 2.*
27. El-Emam, N., El-Meligy, M., and Dif, A., “Nonlinear 3-D Analysis of Deep Excavations”, *Fifth Alexandria International Conference on Structural and Geotechnical Engineering, ACSGE5, Faculty of Engineering, Alexandria University, Alexandria, Egypt , 20-22 December 2003, PP: GT27-GT44.*
28. Abdel Aziz, G., A., El Nimr, A., Dif, A., Naguib, M., and El Baglaty, S., “ Effect of Retaining Wall Dimensions on Soil-Structure Interaction”, *Fourth Mansoura International Engineering Conference, Faculty of Engineering, Mansoura University, Mansoura – Sharm El-Shiekh, Egypt , 20-22 April 2004.*
29. Elgamal, A., El Nimr, A., Dif, A., and Gabr, A., “Predicting axial pile load capacity”, *Physical Modelling in Geotechnics – Springman, Laue & Seward(eds) - 2010 Taylor&Francis Group, London, ISBN 978-0-415-59288-8. Volume 2, PP:757-761.*
30. DIF, A., IBRAHIM, A., ALLAM, R., “**LATERAL DEFLECTION OF CANTILEVER SECANT PILE IN SOFT CLAY**” *Mansoura Engineering Journal, Faculty of Engineering, Mansoura University, Egypt, Vol. 37, No. 2, June 2012.*
31. Elgamal, A., El Nimr, A., Dif, A., and Gabr, A., “Prediction of Pile Bearing Capacity Using Artificial Neural Networks”, *Mansoura Engineering Journal, Faculty of Engineering, Mansoura University, Egypt, Vol. 37, No. 3, September 2012.*
32. Kamal, Z., Arab, M. and Dif, A., “Numerical Study of Arching Phenomenon of Bored Piles in Sand”, *International Conference on Advances in Structural and Geotechnical Engineering, ICASGE’15, April 2015, Hurghada, Egypt.*
33. Kamal, Z., Arab, M. and Dif, A., “Numerical Study of the Arching Phenomenon of Bored Piles in Sand” *Alexandria Engineering Journal. Volume 55, Issue 3, September 2016, Pages 2639–2645*
34. Elshehawy, E., Altahrany, A. and Dif, A. “**BEARING CAPACITY OF PILE GROUP AND PREDICTION OF NEUTRAL PLAN**” *International Journal of Civil Engineering & Technology (IJCIET), Volume 10, Issue 12, December 2019, pp. 205-214.*
35. Arab, M., Abdelmoghni, M., Akl, S., Dif, A., “ **Numerical Modeling of Unfavorable CFA Pile Drilling Conditions**” *International Journal of Geotechnical and Geological Engineering, Springer Nature Switzerland AG 2020, July 2020, <https://doi.org/10.1007/s10706-020-01475-3>.*

