



CURRICULUM VITÆ

Civil Engineering Department, Faculty of engineering, Port-Said University, Port-Fouad, Port-Said, Egypt. Tel.: +20 66 3446129, +20 66 3446130 Fax. +20 66 3400936
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Mohamed Hassen Ali El-kiki

Nationality Egyptian
Date of birth January 24, 1970
Place of birth Port Said, Egypt
Marital status Married (have three sons)

EDUCATIONAL RECORD

Institution Suez Canal University, Faculty of Engineering
Department Civil Engineering
Location Port-Said, Egypt
Major Field of study Civil Engineering
Degree B.Sc.
General grade Excellent with Honor
Years (from – to) 1988 – 1992

Institution Suez Canal University, Faculty of Engineering
Department Civil Engineering
Location Port-Said, Egypt
Major Field of study Civil Engineering
Degree M.Sc.
Research Title “Hydraulic Stability of Skew Syphon Pipes”
Years (from – to) 1993 – 1997

Institution Tsukuba University, Institute of Engineering
Mechanics
Department Civil Engineering
Location Tsukuba, Japan
Major Field of study Civil Engineering
Degree Ph.D. (issued from Suez Canal University)
Research Title “Hydraulic Stability of Narrow Rivers under
Severe Navigation Conditions”
Years (from – to) 2000 – 2003

LANGUAGE PROFICIENCY

Arabic Mother tongue
English Very Good (International Toefl – Grade 563)

COMPUTER SKILLS

- Programming language: Extensive knowledge and experience with Basic, Fortran, and C languages.
- Computer aided design : Very good experience with AutoCAD, 3DS, Staad, and Sap.
- Other software : High level of experience in computer programs such as Windows XP, Microsoft Office, Adobe Photoshop, Grapher, Surfer, Mathworks, Mathlab.

MAJOR FIELD OF RESEARCH

- 1 – Irrigation and Hydraulics
- 2 – Fluid Mechanics
- 3 – Environmental Engineering
- 4 – Soil Salinity and Solute Transport
- 5 – Irrigated Water Resources
- 6 – Internal Navigation.
- 7 – Shore Protection
- 8 – ANN and its applications in Hydraulics

PROFISIONAL ACTIVITIES

EMPLOYMENT

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| Name of employer | Suez Canal University, Faculty of Engineering |
| Address of employer | Port-Fouad, Port-Said, Egypt, P.O. 42523 |
| Type of organization | Governmental |
| Activities | Educating under-graduates to be awarded the Engineering B.Sc. and supervising post-graduates to be awarded the M.Sc. and Ph.D for engineers |
| Positions | - Demonstrator (1993-1997) (Suez Canal University) - Assistant lecturer (1997-2003) (Suez Canal University) - Lecturer (2003 -2005) (Suez Canal University) - Lecturer (2005 -2008) (Altahadi University-Libya) |

- Lecturer (2008 -2009) (Suez Canal University)
- Associate Professor in environmental Hydraulics (2009 - 2010) (Suez Canal University)
- Executive Manager of the Quality and accreditation unit (2009 -2010) (Suez Canal University)
- Associate Professor (2010 - 2016) (Aljouf university – Saudi Arabia)
- Associate Professor in environmental Hydraulics (2016 - 2018) (Port Said University)
- Professor of irrigation, Hydraulics & environmental Hydraulics (2018 - uptill now) (Port Said University)

PEER REVIEWER TO THE FOLLOWING JOURNALS

- International Journal of Plant Breeding and Crop Science
- PORT SAID ENGINEERING RESEARCH JOURNAL
- Egyptian International Journal of Engineering Science and Technology (EIJEST)
- Journal of Engineering Sciences, Faculty of Engineering, Assiut University

TEACHING EXPERIENCES

- 1– Fluid Mechanics
- 2- Hydraulics
- 3 - Irrigation and Drainage Engineering
- 4 - Design of Irrigation Works
- 5 - Harbor and Navigation Engineering
- 6 - Shore protection
- 7 - Civil Engineering Drawing
- 8 - Sanitary Engineering
- 9 - Water and Waste Water Engineering
- 10 – Ground Water and Surface Water Hydrology
- 11 – River Engineering
- 12 – Environmental Engineering
- 13 – Environmental Hydraulics
- 14 – Descriptive Geometry
- 15 – Drawing Using AutoCAD
- 16 – Computer Application in Civil Engineering
- 17 - Survey
- 18 – Structure Analysis
- 19 – Properties of materials
- 20 – Concrete Structure

- 21 – Steel structures
- 22 - Irrigation Projects
- 23- Hydraulic Projects
- 24- Harbor Projects.
- 25 – Water systems projects

Other Research Activities

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| Name of the Institute | Tsukuba University, Institute of Engineering Mechanics |
| Name of the Department | Civil Engineering Department |
| Activities | Conducting my Ph.D. thesis |
| Position | Visitor Doctoral Student |
| Years (from-to) | 2000-2003 |

PROFISIONAL EXPERIENCE

Project that I involved as a co-investigator: 2004-2006, A cooperation project between Suez Canal University and both of Ain Shams University (Egypt) and Lund University (Sweden) under the title: “**Different Strategies to control or reduce the environmental impact of soil salination when irrigated with saline water**”. This project is funded by SIDA, Sweden.

Project that I involved as a co-investigator: 2008- 2010, A cooperation project between Suez Canal University and Lund University (Sweden) under the title: “**Study the effect of erosion on Elarish city shore**”. This project is funded by SIDA, Sweden.

Project that I involved as a co-investigator: 2008-2010, A cooperation project between Suez Canal University and Lund University (Sweden) under the title: “**Sustainable use of Cairo waste water; environmental effects of the Bahr el Baqar Drain**”. This project is funded by SIDA, Sweden.

Project that I involved as a co-investigator: 2016-2019, A cooperation project between Port Said University and Academy of Scientific Research and Technology under the

title "Salinization in irrigated areas: Risk evaluation and prevention". This project is funded by Academy of Scientific Research and Technology, Egypt.

حضور وعقد دورات تنمية قدرات اعضاء هيئة التدريس بالجامعة وهى كالتالى:

- 1 - برنامج معايير الجودة فى العملية التعليمية.
- 2 - برنامج التخطيط الاستراتيجى.
- 3 - برنامج تنمية مهارات الاتصال الفعال.
- 4 - برنامج التنمية المهنية (النشر العلمى للبحوث).
- 5 - برنامج نظم الامتحانات وتقويم الطلاب.
- 6 - برنامج مهارات العرض الفعال.
- 7 - برنامج اعداد وثيقة الدراسة الذاتية.
- 8 - برنامج اعداد خطة بحثية شاملة.
- 9 - برنامج المعايير الاكاديمية.
- 10 - برنامج توصيف المقررات والبرامج.
- 11 - برنامج الميثاق الاخلاقى.
- 12 - آداب وسلوكيات المهنة الجامعية.
- 13 - استخدام التكنولوجيا فى التدريس.
- 14 - قواعد البيانات العالمية.
- 15 - أساليب البحث العلمى.
- 16 - تنظيم المؤتمرات العلمية.
- 17 - مهارات التفكير الإبداعى.

Membership of the Egyptian Society of Shore Protection.

Working as a lecturer and an academic Supervisor for three years (six Semesters) in Credit Hours System in LIBYA (Faculty of Engineering – Altahdi University) since October 2005 till July 2008.

Working as a lecturer and an academic Supervisor for six years (twelve Semesters) in Credit Hours System in KSA (Faculty of Engineering – Aljouf University) since October 2010 till July 2016.

ATTENDED CONFERENCES

August 2003

XXX IAHR Congress, THEME C, 20- 24 August 2003, Thessaloniki, Greece.

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| June 2005 | IV Regional Conference on Civil Engineering Technology & IV International Symposium on Environmental Hydrology, 7-9 June 2005, Cairo, Egypt. |
| March 2006 | X International Water Technology Conference, 23-25 March 2006, Alexandria, Egypt. |
| September 2007 | V Regional Conference on Civil Engineering Technology & V International Symposium on Environmental Hydrology, 2-4 September 2007, Cairo, Egypt. |
| March 2009 | Thirteenth International Water Technology Conference, IWTC 13 2009, Hurgada, Egypt. |
| March 2015 | 18th International Water Technology Conference 2015, 12-14 March. Sharm El Sheikh, Egypt. |

LIST OF PUBLICATIONS

- 1- **El-kiki M.**, Balah M., Elrayes M. 1997. **Hydraulic Stability of Skew Syphon Pipes**. Thesis submitted for fulfilling the requirements of M.Sc – Faculty of Engineering- Suez Canal university.
- 2- **El-kiki M.**, Hammad M., Nishimura H., Balah M., Shishtawi A. 2003. **Hydraulic Stability of Narrow Rivers under Severe Navigation Conditions**. Thesis submitted for fulfilling the requirements of Ph.D. – Faculty of Engineering- Suez Canal university.
- 3 - **El-kiki M.**, Hammad M., Balah M., Shishtawy A., Kyotoh H., Kitamura E., Nishimura H. 2003. **Hydraulic Stability of a Very Narrow Navigation Channel**. XXX IAHR Congress, Thessaloniki, Greece, THEME C, pp. 211-218.
- 4 – **Elkiki, M.**, 2004. **Environmental effects of ship movement on restricted navigable channels**. Report submitted for Egyptian Society of Shore Protection.
- 5 – Hamed, Y., Shishtawy A., **Elkiki, M.**, Balah M., Berndtsson, R.. **Spatial Variation Of Soil Water Content And Electrical Conductivity Influenced By Surface Leveling**. IV Regional Conference on Civil Engineering Technology & IV International Symposium on Environmental Hydrology, Cairo, Egypt, March 2005.

- 6 – Mirdan, A., **Elkiki, M.**, Shishtawy A., Balah M., Hammad M., **Numerical modeling of velocity distribution through open channel with submerged aquatic weeds.** IV Regional Conference on Civil Engineering Technology & IV International Symposium on Environmental Hydrology, Cairo, Egypt, March 2005.
- 7 - Hamed, Y., **Elkiki, M.**, Kamel, S., Berndtsson, R., **Effect of separate clayey patches in loamy sand soil on both of soil permeability and salinity distribution.** Tenth International Water Technology Conference, Alexandria, Egypt, 23-25 March 2006. Vol. II, pp. 569-583.
- 8 - Hamed, Y., **Elkiki, M.**, Kamel, S., Berndtsson, R., **Investigating the effect of land alignment and soil salinity distribution on plants yield.** Ain Shams University, Scientific Bulletin, Vol. 41, No. 1, March 2006, pp. 398-404.
- 9- **Elkiki, M.**, Hamed, Y., Balah, M., Kitamura H., **Experimental study on effects of ship movement in narrow navigation channel and channel side slopes on water surface profile fluctuations.** Port-Said Engineering Research Journal, Faculty of Engineering, Suez Canal University, Volume 11, No. 2, September 2006
- 10 - Mirdan, A., **Elkiki, M.**, Shishtawy A., Balah M., **Numerical model of the additional resistance to flow introduced by submerged aquatic Weeds.** V Regional Conference on Civil Engineering Technology & V International Symposium on Environmental Hydrology, Cairo, Egypt, September 2007.
11. **M. Elkiki;** "Prediction of scour parameters downstream skew siphon pipes by using Artificial Neural Networks" , Port-Said Engineering Research Journal, Faculty of Engineering, Suez Canal University, Volume 12, No. 1, March 2008, pp. 31-44
12. **M. Elkiki;** "Application of Artificial Neural Networks to Predict the Drawdown Depth Due to Ship Movement in Narrow Navigation Channels" , Port-Said Engineering Research Journal, Faculty of Engineering, Suez Canal University, Volume 12, No. 1, March 2008, pp. 45-59
13. **M. Elkiki,** Shishtawy, A., Balah, M., Kitamura H; "Experimental Study on Effect of Channel Side Slope on Ship Return Velocity in Narrow Navigation Channels" , Egyptian Journal for Engineering and Technology , Faculty of Engineering, Zagazeg University, Volume 12, No. 1, January 2009.

14. Y. A. Hamed, M. H. El-Kiki and A. M. Mirdan; ” **Scour Downstream Oblique V-Notch Weir**” , Thirteenth International Water Technology Conference, IWTC 13 2009, Hurghada, Egypt.
15. K. M. Medan, M. H. Elkiki and A. E. Sheshtawy; “**Assessment and evaluating of important Water Quality parameters along El-Salam Canal using Monitoring Water Quality Data (2008-2009)** “ , Port-Said Engineering Research Journal, Faculty of Engineering, Port Said University, Volume 15, No. 2, September 2011, pp. 47-59.
16. Y. A. Hamed, M. H. El-Kiki and A. A. Ali; ” **The Optimum Practical Method for Reducing Environmental Effects of Polluted Stream Water**” , Port-Said Engineering Research Journal, Faculty of Engineering, Port Said University, Volume 16, No. 2, September 2012, pp. 1-15.
17. M. H. Elkiki et.al. “ **Influence of geometric design of alternate partial root-zone subsurface drip irrigation (APRSDI) with brackish water on soil moisture and salinity distribution** “ Journal of Agricultural Water Management 103 (2012) 182– 190
18. M. H. Elkiki et.al. “**Assessment of inter-plant emitter distance and effects of irrigation water salinity on APRSDI using Hydrus-2D**” European Journal of Scientific Research Volume 58 Issue 2. 2012
19. M. H. Elkiki et.al. “**Numerical evaluation of subsurface trickle irrigation with brackish water**” Journal of Irrig. Science (2013) 31 - 5:1125-1137.
20. Hamed Y. A., Abdelmoneim T. S. , Elkiki M. H., Hassan M. A. and Berndtsson R. “**Assessment of Heavy Metals Pollution and Microbial Contamination in Water, Sediments and Fish of Lake Manzala, Egypt**” Life Science Journal 2013;10(1) 86-99
21. Hamed Y. A., Elkiki M. H. and O. S. Al Gahtani “**Prediction of future ground water elevation by using Artificial Neural Network south of Riyadh, KSA (Case Study)**” 18th International Water Technology Conference 2015, 149-162 March. Sharm El Sheikh, Egypt.
- 22 - Mohamed Elkiki "Estimation of scour depth downstream the skew V-notch Weirs using Artificial Neural Network and Gene Expression Program" International Water Technology Journal, IWTJ 8(1):March 2018.
- 23 - Tarek Selim, Mahmoud Hesham and Mohamed Elkiki "Effect of sediment transport on flow characteristics in non-prismatic compound channels", Ain Shams Engineering Journal, Volume 13, Issue 6, November 2022, <https://doi.org/10.1016/j.asej.2022.101771>.

24 - Tarek Selim, Samah M. Elkefay, Ronny Berndtsson, **Mohamed Elkiki** and Ahmed A. El-kharbotly "**Can Potato Crop on Sandy Soil Be Safely Irrigated with Heavy Metal Polluted Water?**", *Water* 2022, 14, 1226. <https://doi.org/10.3390/w14081226> .