

MOHAMED TAREK EL-SAID IBRAHIM SHAMAA

Associated Prof.

EDUCATION

- **Associated Professor degree in Irrigation and Hydraulics Engineering**, the Highest Council of Universities, October 2004, Egypt.
- **Ph.D. degree in the branch of Hydraulics Engineering**, the Council of the Faculty of Civil Engineering, October 1998, Slovak University of Technology in Bratislava, Slovakia based on the successful defense of My thesis entitled: Influence of Roughness and Morphology of River on Water Level and Discharge Regime.
- **M.Sc. degree in Irrigation and Hydraulics Engineering**, the Council of the Faculty of Engineering, August 1989, El-Mansoura University, El-Mansoura, Egypt based on the successful defense of My thesis entitled: application of resistance Formulae in Irrigation canals.
- **B.Sc. Degree in Civil Engineering May 1983**, Faculty of Engineering and Technology, Suez Canal University, Egypt.

ACADEMIC EXPERIENCE(FULL-TIME)

- **Associated professor** in Irrigation and Hydraulics Department, From September 2004 till now, Faculty of engineering, El-Mansoura University.
- **Lecturer** in Irrigation and Hydraulics Department, From December 1998 till September 2004, Faculty of engineering, El-Mansoura University, Egypt.
- **Assistant lecturer** in Irrigation and Hydraulics Department, From August 1989 till September 1993, Faculty of engineering, El-Mansoura University, Egypt.
- **Demonstrator in Irrigation** and Hydraulics Department, September 1985, Faculty of engineering, El-Mansoura University, Egypt.

HONORS AND AWARDS

- University Incentive Award, Mansoura University 2004.

SELECT PUBLICATIONS/PRESENTATIONS (PAST 5 YEARS)

- Zidan, A.R., Sakla, S., and Shamaa, M.T., December 1990, " A Review of Friction Formulae", Mansoura Engineering Journal (MEJ), Faculty of Engineering, Mansoura University, Vol. 15, No.2.
- Shamaa, M.T., Kamenský, J., June 1997,"Effect of Water Release from Water Power Plant Madunice on Water Level and Discharge Regime of River Vah", Vah River Which Connect Conference, Piešťany, Slovakia.
- Shamaa, M.T., Kamenský, J., April 1998,"An Iterative Method for Estimation of Resistance Coefficient in Saint-Venant Equations", International Conference on European River Development, Budapest, Hungary.

- Shamaa, M.T., June 2001,"Performance and Sensitivity of Irrigation Offtakes", Mansoura Engineering Journal (MEJ), Faculty of Engineering, Mansoura University, Vol. 26, No.2, June, pp. C.101-C.110.
- Shamaa, M.T., 2002, "A Comparative Study of Two Numerical Methods for Regulating Unsteady Flow in Open Channels", Mansoura Engineering Journal (MEJ), Faculty of Engineering, Mansoura University, Vol. 27, No.4, December, pp. C. 14-C. 27.
- Shamaa, M.T., June 2003,"A Numerical Method for Regulating Unsteady Flow in Open Channel", Seventh International Water Technology conference IWTC, Volume I, Cairo, Egypt, 3-5 June, pp. 391-406.
- Shamaa, M.T., 2003, " Explicit numerical Schemes for the simulation of Hydraulic Jump", Mansoura Engineering Journal (MEJ), Faculty of Engineering, Mansoura University, Vol. 28, No.3, September, pp. C. 29-C. 50.
- Shamaa, M.T., and Abdel-Gawad, H.A., 2004, " Minimum Cost Design of Irrigation Canal Sections", Mansoura Engineering Journal (MEJ), Faculty of Engineering, Mansoura University, Vol. 28, No.3, March, pp. C.134-C.155.
- Shamaa, M.T., and Abdel-Gawad, H.A., 2004, " Evaluation of Manning's n in Irrigation Canals of Composite Roughness", Mansoura 4th International Engineering Conference, El-Mansoura and Sharm El Sheikh, 20-22 April, C.475-C.487.
- Abdel-Gawad, H.A., and Shamaa, M.T., 2004, " Optimal Utilization of Coastal Unconfined Aquifers", Mansoura Engineering Journal (MEJ), Faculty of Engineering, Mansoura University, Vol. 29, No.2, June, C.20-C.32.
- Abdel-Gawad, H.A., and Shamaa, M.T., 2004, " Seepage Through Earth Dams with Horizontal Filters and Founded on Impervious Foundation, Numerical Analysis with Boundary Element Method", Alexandria Engineering Journal, Vol. 43, No.4, July.
- Performance of Hinged Floating Breakwaters Under Waves, Rageh O.S., El-Alfy K.S., Shamaa M.T., And Diab R.M. ,5 th Eng. Conf., Univ. of El-Mansoura-Sharm El Sheikh, 2006.
- Rageh O.S., El-Alfy K.S., Shamaa M.T., And Diab R.M. ,2006, "An Experimental Study of Spherical Floating Bodies under Waves" Tenth International Water Technology conference IWTC 10, Volume I, Alexandria, Egypt, pp. 357-375.
- H. M. Karkuri, M. Hashem, And M. T. Shamaa, January 2008", Simulation of One-Phase Partially Saturated Groundwater Flow", Journal of Engineering Sciences, Assiut University, Vol. 36, No. 1, pp. 39-49.
- Shamaa, M.T., Hashem, M., Karkuri, H. M., March 2008,"Estimation of Hydraulic jump Location Using Numerical Simulation", Twelfth International Water Technology conference IWTC, Volume I, Alexandria, Egypt, 27-30 March, pp. 291-304.
- Shamaa, M.T., and Karkuri, H.M., 2011, "Implicit Numerical Scheme for regulating unsteady flow in open channel" Fifteenth International Water Technology Conference, IWTC-15, Alexandria, Egypt.

- El-Alfy, K.S., Shamaa, M.T., & Al-Tameemi, H.H., June 2017, “Reducing The local Scour around Bridge Piers by Using Semi-conical Piers” Mansoura Engineering Journal, MEJ, Vol. 42, Issue 2, C:10-C:19, Egypt.
- Mohsen Ezzeldin, Mohamed T. Shamaa, Omnia Naguib, January 2018, “Application of Numerical Methods for Regulating Unsteady Flow in Prismatic and Natural Open Channels”, International Journal of Scientific & Engineering Research Volume 9, Issue 1, ISSN 2229-5518.
- Aya M. Elkhoully, Tharwat A. Sarhan, Mohamed T. Shamaa, Reham M. Ezzeldin, August 2019, “Local Scour Around Bridge Abutment”, International Journal of Scientific & Engineering Research Volume 8, Issue 1, ISSN 2229-5518.
- Kasem S. El- Alfy, Mohamed T. Shamaa & Haider H. Al-tameemi, November 2019, “Developing local scour equations for piers with side slopes”, International Journal of Scientific & Engineering Research Volume 10, Issue 11, ISSN 2229-5518.
- Mohamed. T. Shamaa, November 2019, “Inverse Kinematic Scheme to Organize Unsteady Open Channel Flow”, International Journal of Scientific & Engineering Research Volume 10, Issue 11, ISSN 2229-5518.
- Mohamed. T. Shamaa, February 2020, “Local Scour for Side Slopes Piers with Upstream Lenticular Nose”, International Journal of Scientific & Engineering Research Volume 11, Issue 2, ISSN 2229-5518.
- Waleed Fouad, Ali Masria, Karim Nassar, Mohamed Tarek Shamaa, September 2020, “Evaluation of the Rosetta Coastal Zone through Integration of Remote Sensing and Statistical Analysis (DSAS)”, International Journal of Scientific & Engineering Research Volume 11, Issue 9, ISSN 2229-5518.
- Abdallah Mohammed Allam; Mohamed Tarek Shamaa; Abdel Razek Zidan, MARCH 2021 “Reduction of Local Scour around Bridge Piers Using Different Countermeasures”, MANSOURA ENGINEERING JOURNAL, (MEJ), VOL. 46, ISSUE 1.

PROFESSIONAL DEVELOPMENT

- Vice-Dean of the Nile Institute for Education and Student Affairs from January 2022 until now.
- Acting Dean of the Nile Institute for Engineering and Technology in Mansoura for the academic year 2020/2021 until December 2021.
- Participation in the preparation of engineering reports for the Office of Engineering Consultations, Faculty of Engineering, Mansoura University.
- Participation in the renovation works at the Faculty of Engineering, Mansoura University.
- Participation in the preparation of quality programs for postgraduate studies for the Department of Irrigation and Hydraulics Engineering in the year 2015/2016 at the Faculty of Engineering, Mansoura University.
- Participate in supervising the preparation of study schedules for the Department of Civil Engineering, Faculty of Engineering, Mansoura University.

- Head of Civil Control for 1st year students of civil engineering department at the Faculty of Engineering, Mansoura University, from the academic year 2015/2016 to 2018/2019.
- Supervising the irrigation and hydraulics engineering laboratory at the Faculty of Engineering, Mansoura University, from the academic year 2015/2016 until 2019/2020.

TRAINING COURSES TO DEVELOP UNIVERSITY PERFORMANCE

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| • Decision Making and Problem-Solving | August 2005 |
| • The credit hours system | July 2015 |
| • Strategic Planning | August 2015 |
| • Implementation of academic standards for the educational program | August 2015 |
| • Managing the research team | December 2019 |
| • Designing personal websites for faculty members | January 2020 |
| • Preparing and designing electronic tests | February 2020 |