

 **Address** : Port-Said University, Faculty of Engineering, Civil Engineering Department,
Port-Said, Egypt. 42523
 **Phone** : +2 066-3446131
 **Mobile phone** : +2 0105110316
 **Home phone** : +2 066-3419192
 **E-Mail** ; hi_hgh@yahoo.com

Dr. Hassan Mohamed Hassan Ibrahim

1. PERSONAL INFORMATION

Date of birth: June, 20, 1964
Material status: Married
Religion: Moslem
Nationality: Egyptian
Mother tongue: Arabic
Second language: English
Field of interest: Concrete Structures & Project Management
Occupation: Prof. of Concrete Structures, Port-Said University,
Faculty of Eng., Civil Eng. Dept., Port Said, Egypt.

2. BREIF ACADEMIC BACKGROUND

1987 **B.Sc.** Faculty of Engineering, Civil Eng. Dept., Suez Canal University. **General grade: Excellent with honor degree.**

1991 **M.Sc. degree**, Suez Canal University, Faculty of Eng., Civil Eng. Dept., Port Said, Egypt.
Dissertation Title: Application of the Finite Element Method to Reinforced Concrete Structures (Alternative Structural-Material Modeling)

1996 **Ph.D. degree** in Structural Engineering under the joint supervision system between *Suez Canal University, Egypt and University of Ottawa, Canada.*
Dissertation Title: Combined Boundary Element and Finite Element Analysis of Concrete Bridge Superstructures

2001-2003 **Associate Professor** of Concrete Structures Civil Engineering Department, Suez Canal University, Egypt.

2003-2004 **Associate Visiting Professor** of Concrete Structures, Marghab University, El-Khoms, Libya.

2004-2009 **Associate Professor** of Concrete Structures Civil Engineering Department, Suez Canal University, Port-Said Egypt..

2009-2010 **Associate Professor** of Concrete Structures, Port-Said University, Port-Said Egypt..

2011 **Professor** of Concrete Structures Civil Engineering Department, Port-Said University, Port-Said Egypt.

2012-2014 **Head of Civil Engineering Department.** Faculty of Engineering, Port-Said University, Port-Said, Egypt..

- 2015-** Vice Dean of Educational and Student Affairs. Faculty of Engineering, Port-Said University, Port-Said, Egypt..
- 2015-** Engineering Consultant of Port-Said University, Port-Said University, Port-Said, Egypt..

3. LIST OF PUBLICATIONS BEFOR 2011

3.1 CONFERENCE PAPERS

- [1] Ibrahim H. M., Cheung M.S., Soliman A.K.A.K., “Nonlinear Analysis of Slab-on-Girder Bridges”, *5th International Colloquium on Concrete in Developing Countries, Cairo, Egypt, 1994.*
- [2] Ibrahim H. M., Cheung M.S., Soliman A.K.A.K., “Nonlinear Analysis of Concrete Slabs Using The Boundary Element Method”, *6th International Conference on Computing in Civil Engineering, Berlin, Germany, pp. 1081-1088, 1995.*
- [3] Ibrahim H. M., “Boundary Element Analysis of Slabs Subjected to Line and Patch Loading”, *8th International Conference on Structural and Geotechnical Engineering, Ain-Shams University, Faculty of Engineering, Vol. I, pp. 31-41, 15-17 Dec. 1998.*
- [4] Ibrahim H. M., “A Boundary Element Approach For The Analysis of Short I-Beams”, *8th International Conference on Structural and Geotechnical Engineering, Ain-Shams University, Faculty of Engineering, Vol. I, pp. 77-86, 15-17 Dec. 1998.*
- [5] Ismail M. A., Ibrahim H. M., “A Simple Algorithm For The Analysis Of Multi-Layered Ballastless Railway Track Structure”, *8th International Conference on Structural and Geotechnical Engineering, Ain-Shams University, Faculty of Engineering, Vol. II, pp. 47-63, 15-17 Dec. 1998.*
- [6] Ibrahim H. M., “Distribution of Stresses in Deep Beams With Web Opening Using Boundary Elements”, *1st Minia International Conference for Advanced Trends in Engineering, MICATE 99, Minia University, Faculty of Engineering, Civil Engineering Part, pp. 1-10, 1999.*
- [7] Ibrahim H. M., “Analysis of Plated Structures by Coupling Techniques”, *IABSE, Symposium, Rio de Janiro, Brazil 1999, “The Search for Quality”.*
- [8] Ismail M. A., Ibrahim H. M., “Assessment Of Rail Profiles By Boundary Element”, *16th Congress of IABSE, Lucerne 2000, “Structural Engineering For Meeting Urban Transportation Challenges”, Switzerland, Lucerne.*
- [9] Ibrahim H. M., Aboul-Enin G. “Boundary Volume Instead of Finite Element For Soil-Fluid Interactions”, *4th Alexandria International Conference on Structural and Geotechnical Engineering, Alexandria University, Faculty of Engineering, Vol. 2, pp. 863-871, April 2001.*
- [10] Ibrahim, H.M. and Refat, K. “Study of Disturbed Regions in Slabs”, *The 10th International Colloquium on Structural & Geotechnical Engineering, Ain-Shams, Cairo, pp. E03RC 19-1-E03RC 19-21, 2003.*
- [11] Zaki S., Zubidan A., Ibrahim H.M., and Abdel-Galil E.Y. “Advanced Nonlinear Finite Element Analysis of Reinforced Concrete Structures: Applicability and Challenge”, *6th International Conference on Role of Engineering towards a Better Environment, 2006.*
- [12] Ibrahim, H.M. “Nonlinear Finite Element Analysis of Concrete Beams Reinforced with FRP Rebars”, *10th Arab Structural Engineering Conference, Kuwait, pp. 369-376, 2006.*
- [13] Ibrahim, H.M. “Finite Element Modelling of Bond Between Concrete and FRP Rebars”, *Civil-Comp Press, The Eighth International Conference on Computational Structures Technology, Paper 134, pp. 1-16, 2006.*

- [14] Ibrahim, H.M. “Load Distribution from Slabs to Beams: A Review of Egyptian Code Provision”, 12th International Colloquium on Structural & Geotechnical Engineering, Ain-Shams, Cairo, December **2007**.
- [15] Ibrahim, H.M. “Design of Concrete Slabs Subjected to Axial Compressive and Transverse Loads”, 12th International Colloquium on Structural & Geotechnical Engineering, Ain-Shams, Cairo, December **2007**.
- {16} Hassan M. Ibrahim, “Strengthening Ferrocement Slabs for Punching with Shear Studs”, AICSGE 7, The 7th Alexandria International Conference on Structural and Geotechnical Engineering, pp. RC 15-RC 28, **2010**.
- {17} Hassan M. Ibrahim (2010), “Experimental Investigation of Cementitious Slabs Reinforced with Wired-Meshes and Continuous CFRP Slices”, Journal of Civil Engineering and Architecture, Volume 4, Number 8 (Serial No. 33) ISSN 1934-7359, USA, pp. 53-62, **2010**.

3.2 JOURNAL PAPERS

- [1] Ghali K.N., El-Rayes M.K., Soliman A.K.A.K., Ibrahim H. M., “Reinforced Concrete Finite Element Application Using Different Structural Material Modeling”, *Modeling, Measurements and Control B, AMSE press, Vol. 48, No.1, pp. 45-63, 1993*.
- [2] Ghali K.N., El-Rayes M.K., Soliman A.K.A.K., Ibrahim H. M., “Physical Nonlinear Finite Element Simulation Models of Two-Dimensional Reinforced Concrete Structures (Applications)”, *Modeling, Measurements and Control B, AMSE press, Vol. 49, No.4, pp. 1-14, 1993*.
- [3] Soliman A.K.A.K., Cheung M.S., Ibrahim H. M., “Nonlinear Analysis of Concrete Box-Girder Bridges”, *Port Said Engineering Research Journal PSERJ, Vol. 1, No.1, pp. 19-28, 1997*.
- [4] Ismail M. A., Ibrahim H. M., “Effect Of Lateral And Vertical Loading On Track Strength”, *Ain-Shams University, Faculty of Engineering, Scientific Bulletin, Vol. 35/2, July, 2000*.
- [5] Ismail M. A., Ibrahim H. M., “Wear Problems Of Tongue Rail Tip In Railway Turnouts”, *Ain-Shams University, Faculty of Engineering, Scientific Bulletin, Vol. 35/1, March, 2000*.
- [6] Ibrahim H. M., Hamada T. “Evaluation of Structural Design Based on Finite Element Method”, *Port Said Engineering Research Journal PSERJ, Sept. 2001*.
- [7] Ibrahim H.M., and Marzouk, M. “Effect of Fire Distinguishing Methods on the Capacity of Reinforced Concrete Compression Members”, *Port-Said Engineering Research Journal, Vol. 7, No. 2, pp. 513-521, 2003*.
- [8] Semaida A., Ibrahim H.M., Ismail M., and El-Mansy N. “Analysis of Rigid Pavement Using Alternative Base Models”, *Port-Said Engineering Research Journal, Vol. 8, No. 2, pp. 36-67, 2004*.
- [9] Semaida A., Ibrahim H.M., Ismail M., and El-Mansy N. “Evaluation of the Design Techniques of Rigid Pavement”, *Port-Said Engineering Research Journal, Vol. 8, No. 2, pp. 68-87, 2004*.
- [10] Zaki S., Zubidan A., Ibrahim H.M., and Abdel-Galil E.Y. “Nonlinear Analysis of Monotonically and Cyclically Loaded Reinforced Concrete Planer Structures: A Computer Program”, *Port-Said Engineering Research Journal, Vol. 10, No. 1, pp. 152-171, 2006*.

- [11] Zaki S., Zubidan A., Ibrahim H.M., and Abdel-Galil E.Y. “Nonlinear Response of Reinforced Concrete Structures In Flexure”, Scientific Bulletin Ain-Shams University, Faculty of Engineering, Vol. 40, No. 2, pp. 45-61, **2006**.
- [12] Ibrahim, H.M. “Design Capacity of Slender Reinforced Concrete Columns: A New Approach”, Port-Said Engineering Research Journal, Vol. 11, No. 2, **2007**.
- {13} E. Abdel Glil, M. El Gendy, H. Ibrahim, and A. Reda, “Optimization of Piled Raft in Port-Said”, Port-Said Engineering Research Journal, Volume 13, No. 1, pp. 27-45, **2009**.
- {14} Hassan M. Ibrahim, “Experimental investigation of ultimate capacity of wired mesh-reinforced cementitious slabs”, Elsevier, Science Direct, Journal of Construction and Building Materials, 25, pp. 251-259, **2011**.
- {15} Hassan M. Ibrahim, “Shear capacity of ferrocement plates in flexure”, Elsevier, Science Direct, Journal of Engineering Structures, Volume 33, Issue 5, pp. 1680–1686, **2011**.

3.3 STATE-OF-THE ART PUBLICATION

Ibrahim H. M., “**REINFORCED CONCRETE ELEMENTS IN MARINE STRUCTURES**” A Review Article Submitted in Partial Fulfillment of the Requirements of the Degree of Associate Professor, Sept. **2001**.

4. ACADIMIC ACTIVITIES AFTER PROFESSORSHIP 2011-

4.1 RESEARCH PAPERS

1	Hassan Ibrahim, El-Aarabi I, and Rizk M., "Nonlinear Analysis of Reinforced Concrete by Finite Segment Technique", Port-Said Engineering Research Journal, Vol. 17, No. 1, March 2013
2	Hassan Ibrahim, Sharobim Kamal, and Khaled M., "Experimental Investigation of Strengthening Short Concrete Columns", Port-Said Engineering Research Journal, Vol. 18, No. 2, September 2014
3	Hassan Ibrahim, Ibrahim El Arabi, and Mahmoud El Gendy, "Analyzing Barrettes as Large-Section Supports by CCT", PORT SAID ENGINEERING RESEARCH JOURNAL Faculty of Engineering - Port Said University Volume (20) No. 2 pp: 27:39, September 2016
4	Mohamadin M., Hassan Ibrahim, Moataz A. and, Elziny A., "An Expert System to Manage Dispute resolutions in Construction Projects in Egypt", Ain Shams Engineering Journal, Volume 7, Issue 1, pp. 57–71, March 2016
5	Abdel Khalik , A. K., Hassan, H. M, and Sallam, E. A3, " A Developed Flexibility-Based Beam Column Element for Nonlinear Analysis of Reinforced Concrete Seismic Resisting Frames", PORT SAID ENGINEERING RESEARCH JOURNAL Faculty of Engineering - Port Said University Volume (20) No. 2 pp: 40:53, September 2016
	Abdel Khalik , A. K., Hassan, H. M, and Sallam, E. A3, " Modified Reinforced Concrete Plane Stress Element Formulation for the

6	Nonlinear Response of Seismic Resisting Systems ", PORT SAID ENGINEERING RESEARCH JOURNAL Faculty of Engineering - Port Said University Volume (20) No. 2 pp: 64:80, September 2016
7	Ahmed m. S. Faisal, Hassan m. H. I, Mohamed A. A., " Feasibility of using Metakaolin as a Self-Compacted Concrete Constituent Material", Fourth International Conference On Advances In Civil, Structural And Environmental Engineering - ACSEE, DIO: 10.15224/978-1-63248-114-6-25, pp. 65 – 70, 2016
8	Mohamadin M., Hassan Ibrahim, Moataz A. and, Elziny A., "Application of Modern Methodologies to Settle Dispute in Construction Projects in Egypt", Ain Shams Engineering Journal, .
9	Mohamadin M., Ahmed S. E. Hassan Ibrahim, and Yahia Elziny, "Value Engineering Study of Low-Cost Governmental Housing Projects", PORT SAID ENGINEERING RESEARCH JOURNAL Faculty of Engineering - Port Said University Volume (20) No. 2 pp: 64:80, September 2016
10	M.A.E.M Khalil, M.A.Mohamedien, H.M.H.Ibrahim, I.M.Mahdi, " Developing Multi-Dimensional Framework of BIM Approach to Marine Project's Management", IPASJ International Journal of Management, IJMJ: Volume 4, Issue 10, pp. 1-19, October 2016
11	M.A.E.M Khalil, M.A.Mohamedien, H.M.H.Ibrahim, I.M.Mahdi, "Integrated Building Information Modeling (BIM) System for Multi-dimensional Framework Application on Marine Projectst", IPASJ International Journal of Management, IJMJ: Volume 4, Issue 10, pp. 20-34, October 2016

4.2 STUDENT RESEARCH PROJECTS

1	Experimantal Investigation of Recycled Concrete Beams Under Flexure and Shear, A Project Performed By Construction Program Students, 2012
2	Experimantal Investigation of Brick Walls Strengthened By Ferrocement Layers, A Project Performed By Construction Program Students, 2012
3	Experimantal Investigation of Brick Columns Strengthened By Ferrocement Layers, A Project Performed By Construction Program Students, 2013
4	Analytical and Experimantal Investigation of Cementitious Slabs Reinforced with Welded Wire Mesh Subjected to Eccentric Loads, A Project Performed By Civil Engineering Students, 2014
5	Analytical and Experimantal Investigation of Shear Interface Behavior of Concrete Slabs Cast in Two Layers, A Project Performed By Civil Engineering Students in 2012 and Continued with Construction Program Students in 2013, Finally Completed by Civil Engineering Students in 2014

4.3 REVIEWR FOR THE FOLLOWING JOURNALS:

1	The Institution of Structural Engineers, Journal of Structures, Elsevier Science.
2	Arabian Journal for Science and Engineering, AJSE, Springer
3	Construction and Building Materials, Elsevier Science.
4	Port-Said Engineering Research Journal

5. ENGINEERING EXPERIENCE

<i>Year</i>	<i>Job Description</i>
1989-1991	Part time designer of concrete structures in Port Said Consultant Engineering Office.
1996-1998	Part time senior structural engineer in Hamza Associates office, Port Said Office.
1999	1- Working part time (2-month) for Technology Transfer Company as a instructor to the Engineers of Sinai housing organization to use the new laboratory equipment and to perform the standard tests for concrete and materials. 2- Coordinator representative at the phase of pre-tender investigation of Port Said East Port Project (Hamza Associate).
1999-2002	On site Technical office manager for the Consultant Office (Hamza Associates) for the construction of Port said East Port project, Construction of the Quay wall. <i>Project:</i> PORT- SAID EAST PORT (Construction of Quay wall) <i>Client:</i> Suez Canal Container Terminal SCCT <i>Consultant:</i> Hamza Associates <i>Contractor:</i> RACON (Consortium for the construction of Port Said east port RODIO & AIC) <u>Contract Price of the Quay wall:</u> (67.000.000 \$) <i>Contractor:</i> PSDC <u>Contract Price of Dredging:</u> (210.000.000 \$) Study and Review Technical Reports &and Shop-drawings <ul style="list-style-type: none">• Shop-drawings of Reinforced concrete T-section diaphragm wall of depth 65/35• Shop-drawings of Reinforced concrete barrettes of depth 65• Shop-drawings of Quay wall superstructure which includes main girders of depth 3.0 ms, capping & coping beams, pre-cast slabs, cast in-situ slabs.

- Shop-drawings of corbels supporting pre-cast slabs.
- Welding details and sonic pipes fixation
- Form-works
- Drainage system
- Crane tie-down, storm anchorage details, and crane power pits
- Installation of corrosion monitoring system
- Instrumentation inserted in the cages (strain gauges, vibrating wire piezometer)
- Port facilities (bollards, fenders, allowance for ship utility services, etc.)
- Under-water inspection for front wall
- Concrete mix design
- Quality control plan
- Approval of materials (concrete materials, steel reinforcement, waterproofing materials, foam for expansion joints)
- Method statements for construction such as cage lifting, cage installation, excavation and backfilling for working platform, excavation underneath the quay wall deck, dewatering system design, etc.

2002-2004 Acting Engineer's representative for the construction of Port-Said East Port Quay Wall Project.

2007 Part-time Senior designer engineer of concrete structures in Port Said Consultant Engineering Office.

2008-2009 Senior Structural Engineer responsible for technical office support and Engineers site activities – Working for **Kuwait United Development & DMJM Harris** Damietta New Container Terminal.
Resident Engineer for Quay wall Construction - Damietta New Container Terminal – Working for **Kuwait United Development**.

2010 Consultant Engineer' Project Manager of Soil Improvement Projects of Gaber Al-Ahmed and El-Solybikhat Cities, Kuwait.

6. SUPERVISION OF M.Sc. and Ph.D. Thesis

See Attached List

7. Teaching Experience

8. SOCIETY SERVICE

غضو لجنة المنشآت الآيلة للسقوط بمحافظة بورسعيد
غضو لجنة المحاقظه على التراف المعماري بمحافظة بورسعيد

9. SPECIAL SKILLS

- 1. Examiner for Four (5) M.Sc. and Ph.D Thesis.**
- 2. Manager of Material and Concrete Testing Unit, Faculty of Engineering- Port-Said University.**

10. REFERENCES

Furnish upon request