



CURRICULUM VITAE

PERSONAL DATD



Surname : Afefy
Middle Name : Mohy El-Din
First Name : Hamdy
Nationality : Egyptian
Marital Status : Married, two sons
Date of Birth : Nov. 17, 1972
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QUALIFICATIONS

- * Ph.D. Degree, Structural Engineering, Structural Engineering Department, Faculty of Engineering, Tanta University, Egypt (The Experimental work and the numerical simulation had been conducted at Ryerson University, Toronto, Ontario, Canada, September. 2005 to March 2007 according to an agreement between Tanta University of Egypt and Ryerson University of Canada). Thesis entitled: ***Experimental and Numerical Instability Analysis of High Strength Reinforced Concrete Systems.*** 2007
- * M. Sc. Degree, Structural Engineering, Structural Engineering Department, Faculty of Engineering, Tanta University. Thesis entitled: ***Nonlinear Finite Element Analysis of Reinforced Concrete Infilled Frames under Dynamic Effects.*** 2000
- * B.Sc. Degree with first honors, Structural Engineering Department, Faculty of Engineering, Tanta University. Graduation project in design of reinforced concrete structures with grade Distinction. 1996

POSITION

Professor of Concrete Structures, Structural Engineering Department, Faculty of Engineering, Tanta University, Tanta, Egypt

MEMBERSHIP

- Member in Egyptian Engineering Syndicate
- Consultant Engineer, Design of Reinforced Concrete Structures

Peer Reviewer:

Reviewer for many national and international journals including:

- Journal of Advanced Research
- Engineering Structures
- Structure and Infrastructure Engineering
- Journal of Structural Engineering, ASCE
- Journal of Bridge Engineering, ASCE
- Advances in Concrete Construction, An International Journal



- Steel and Composite Structures, An International Journal
- Construction and Building Materials
- KSCE Journal of Civil Engineering
- International Journal of Concrete Structures and Materials
- The Open Civil Engineering Journal
- Open Journal of Civil Engineering
- Smart Structures and Systems
- International Journal of Science and Technology
- DYNA Engineering Journal
- Advances in Research
- JZUS-A (Applied Physics & Engineering), an international peer-reviewed journal
- Journal of Scientific Research and Reports
- World Journal of Civil Engineering and Construction Technology
- Reviewer for the paper presented in the 4th International Structural Specialty Conference (ISSC-IV) which was held in Halifax, NS, Canada, May 28-31, 2014. (Reviewed 3 papers)
- Reviewer for the paper presented in the 1st International Conference on Advanced in Structural and Geotechnical Engineering (ICASGE15), Hurghada, Egypt. 6-9 April, 2015.
- Reviewer for 2016 Global Conference on Polymer and Composite Materials (PCM2016), May 20th to 23rd, 2016 in Hangzhou, China (Reviewed 5 papers)
- Reviewer for the 5th International Conference on Civil Engineering and Urban Planning (CEUP 2016), August 23-26, 2016 in Zhangjiajie, Hunan province, China.
- Reviewer for the 5th Global Conference on Materials Science and Engineering, November 8-11, 2016 Taiwan
- Reviewer for the paper presented in the 1st International Engineering Conference (MUIEC), Menoufia University, Sharm Elsiekh, Egypt. 24-28 March, 2017.
- Reviewer for the 6th International Conference on Materials Science and Engineering (CMSE 2017), Beijing, China, October 24th-27th, 2017
- Reviewer for International Workshop on Materials Science and Mechanical Engineering (IWMSME 2017) Kunming, China, during October 27th -29th, 2017.
- Reviewer for The 7th Global Conference on Materials Science and Engineering (CMSE 2018), Xi'an, Shannxi, China, November 1th-4th, 2018
- Reviewer for the 10th International Conference on Short and Medium Span Bridges Quebec City, Quebec, Canada, July 31 – August 3, 2018.
- Appointed as Academic Editor of Journal of Engineering Research and Reports, 2018

XPERIENCES

- From August 2014 to now: **Associate Professor**, Structural Engineering Department, Faculty of Engineering, Tanta University. Engaged in the course work of:
 - i. Special topics in reinforced concrete for 4th year Civil.
 - ii. Graduation project of Reinforced Concrete structures & Strengthening and repair of reinforced concrete structures.
 - iii. Analysis of Bridge Systems, Master of Science, level 600.
- From March 2014 to August 2014: **Visiting Professor** at Ryerson University, Faculty of Engineering and Architectural Science, Toronto, Ontario, Canada.
- Member of the Organizing Committee for the International Conference on Advanced in Structural and Geotechnical Engineering (ICASGE15), Hurghada, Egypt. 6-9 April, 2015.



Tanta University
Faculty of Engineering
Structural Engineering Department



- Member of the International Scientific Committee of the 4th International Structural Specialty Conference (ISSC-IV) which was held in Halifax, NS, Canada, May 28-31, 2014.
- From March 2013 to now: **Associate Professor**, Structural Engineering Department, Faculty of Engineering, Tanta University. Engaged in the course work of: -
 - iv. Special topics in reinforced concrete for 4th year Civil.
 - v. Graduation project of Reinforced Concrete structures & Strengthening and repair of reinforced concrete structures.
 - vi. Analysis of Bridge Systems, Master of Science, level 600.
- From August 2011 to February 2013: **Assistant Professor**, Structural Engineering Department, Faculty of Engineering, Tanta University. Engaged in the course work of: -
 - vii. Quantity surveying and specification preparation for 3rd year Structural.
 - viii. Special topics in reinforced concrete for 4th year Civil.
 - ix. Special topics in reinforced concrete for 4th year Structural.
 - x. Graduation project of Reinforced Concrete structures & Strengthening and repair of reinforced concrete structures.
 - xi. Repair and Rehabilitation of RC Structures, Master of Science, level 600.
- From October 2009 to August 2011: **Assistant Professor**, Civil Engineering Department, Faculty of Engineering, Omar El-Mukhtar University, El-Koba branch, Great Socialist Peoples Libyan Arab Jamahiriya.
Engaged in the course work of: -
 - i. Design of Reinforced concrete structures 1,2 and 3
 - ii. Theory of structures 1, 2 and 3
 - iii. Graduation project of Reinforced Concrete structures
- From January 2008 to September 2009: **Assistant Professor**, Structural Engineering Department, Faculty of Engineering, Tanta University. Engaged in the course work of:
 - i. Design of Reinforced concrete structures III, IIIA for 4th year Civil and Structural.
 - ii. Special topics in reinforced concrete for 4th year Civil.
 - iii. Properties and Testing of Materials II for 2nd year Civil.
 - iv. Graduation project of Reinforced Concrete and Strength & Repair
- Since November 1996: **member**, Engineering Research and Consultancy Center, Faculty of Engineering, Tanta University, Egypt.
- From September 2005 to March 2007: **Visiting Scholar**, Faculty of Engineering, Architecture and Science, Ryerson University, Toronto, Ontario, Canada
- From November 2000 to January 2008: **Assistant lecturer**, Structural Engineering Department, Faculty of Engineering, Tanta University. Engaged in the course work of: -
 - Design of Reinforced concrete structures I, II, III and IV
- From November 1996 to November 2000: **Demonstrator**, Structural Engineering Department, Faculty of Engineering, Tanta University. Engaged in the course work of: -
 - i. Design of Reinforced concrete structures I, II, III and IV
 - ii. Theory of structures
- From June 1996 to September 2005: **Free Designer Engineer**, Tanta
- Since 2004: **Senior Designer Engineer**, Engineering Consulting office, Drs. Ibrahim & Aly Eldarwish, Alexandria.

PRACTICAL EXPERIENCE

Member, Engineering Research and Consultancy Center, Faculty of Engineering, Tanta University, Egypt. Involved in the following:



Tanta University
Faculty of Engineering
Structural Engineering Department



1. Design of the new architectural Building, Faculty of Engineering, Tanta University.
2. Revision and Re-estimation of the new Civil and Preparatory Buildings, Faculty of Engineering, Tanta University.
3. Inspection and prepare technical reports for many buildings in Tanta.
4. Design and supervision the execution of the new building of the faculty of Specific Education. Tanta University
5. Design a new Hospital for Tanta University.

Senior Designer Engineer, Engineering Consulting office, Drs. Ibrahim & Aly Eldarwish, Alexandria.

1. Design a residential multistory building at El-Seouf region, Alex.
2. Design El-Darwish's Villa, 6 October City, Cairo
3. Design the foundations and the civil works of the Beet-sugar factory of the Nile Sugar Company for the following units:
Process Building: Front End and Sugar house units - Beet washing and trash treatment unit - Tarehouse (Beet Lab) - Pulp presses unit - Drying unit - Conveyors
4. Design a 4 stars Grand Orkana hotel, Ground tank and swimming pools at Dahab city for Orkana Tourism Co.
5. Design the foundations and the civil works of the second line of Belkas Beet-sugar factory of Dakahlia Sugar Company for the following units:
Tipping bridges - Beet Lab – Conveyors - Lime burning kiln - Cooling towers - Beet washing and trash treatment unit - Waste water plant
6. Design of Transformer station for Fayoum Sugar Works Co.
7. Design the official building and the grinding factory for Al Max Co. Alexandria.

ACADEMIC EXPERIENCE:

Projects and Grants:

1. Seismic Analysis of Reinforced Masonry Infilled RC Frames. (Research Project funded by Tanta University of a total grant of 30,000 EP) 2010/2011.
2. Seismic Rehabilitation for Reinforced Concrete Structures. (Research Project funded by Tanta University of a total grant of 30,000 EP) 2010/2011.

Training and workshops:

- i. International Computer Driving License, ICDL, 2004.
- ii. Web-based course on the Workplace Hazardous Materials Information System (WHMIS), Ryerson University, Toronto, Ontario, Canada, 2005.
- iii. Participated in 12 workshops for Faculty and Leadership Development Project, Tanta University, 2005-2007-2011- 2012:
 1. **Scientific Research**, from May 14, 2005 to May 17, 2005, 15 Hours.
 2. **Time Management and Work pressures**, May 28, 2005 to May, 31 2005, 15 Hours.
 3. **Teaching using technology**, May 13, 2007 to May 15, 2007, 15 Hours.
 4. **Code of Ethics**, May 16, 2007 to May 20, 2007, 15 Hours.
 5. **Active Presentation**, June 6, 2007 to June 10, 2007, 15 Hours.



6. *New Trends in Teaching*, June 17, 2007 to June 19, 2007, 15 Hours.
7. *Human Resources Management*, October 9, 2011 to October 13, 2011, 15 Hours.
8. *How to Write Competitive Research Proposals*, October 16, 2011 to October 20, 2011, 15 Hours.
9. *International Scientific Publishing*, January 29, 2012 to January 31, 2012, 15 Hours.
10. *Concepts and Tools for Quality Assurance*, March 5, 2012 to March 7, 2012, 15 Hours.
11. *Effective Leadership for Teamwork*, April 8, 2012 to April 10, 2012, 15 Hours.
12. *Time management and meetings*, January 22, 2013 to January 26, 2013, 15 Hours.
13. *Legal and Financial Aspects in University Environment*, October 28, 2014 to October 30, 2014, 15 Hours.
14. *Research Team Management*, November 4, 2014 to November 6, 2014, 15 Hours.
15. *Using Technology in Education*, September 13, 2015 to September 15, 2015, 15 Hours.
16. *International Publishing of Research*, September 28, 2015 to September 30, 2015, 15 Hours.
17. *Advanced Communication Skills*, October 18, 2015 to October 20, 2015, 15 Hours.
18. *Strategic Planning*, November 15, 2015 to November 17, 2015, 15 Hours.
19. *Research Ethics*, July 2, 2017 to July 3, 2017, 15 Hours.

- ❖ Web-based course on the Workplace Hazardous Materials Information System (WHMIS), Ryerson University, Toronto, Ontario, Canada, 2014.
- ❖ Web-based course on Orientation to Environmental Health & Safety at Ryerson EHS, Ryerson University, Toronto, Ontario, Canada, 2014.
- ❖ E-learning training on Accessibility for Ontarians with Disabilities Act (AODA), Customer Service Standard, Ryerson University, Toronto, Ontario, Canada, 2014.
- ❖ On-line program on Workplace Violence Prevention & Response, Ryerson University, Toronto, Ontario, Canada, 2014.

Research Interest:

- Structural analysis.
- Finite element simulation of RC structures
- Strut-and-tie model for RC members
- Design of reinforced concrete structures.
- Pre-stressed concrete.
- Strengthening and rehabilitation of RC structures
- Engineered Cementitious Composites applications for strengthening of RC members
- Carbon Fiber Reinforced Polymer applications for strengthening and rehabilitation of RC members.
- Non-destructive testing of RC structures



Conferences:

- International Conference on Advanced in Structural and Geotechnical Engineering (ICASGE17), Hurghada, Egypt. 27-30 March, 2017.
- The CSCE Annual Conference, Building on Our Growth Opportunities, May 27 to 30, 2015, Regina, Saskatchewan, Canada.
- International Conference on Advanced in Structural and Geotechnical Engineering (ICASGE15), Hurghada, Egypt. 6-9 April, 2015.
- The 4th International Structural Specialty Conference (ISSC-IV) which was held in Halifax, NS, Canada, May 28-31, 2014.
- The 14th International Conference on Structural Faults & Repair-2012, Edinburgh, Scotland, UK. 3-5 July.
- 8th International Conference on Concrete Technology in Developing Countries, Hammamat, Tunis, November, 8-9, 2007
- 6th Alexandria International Conference on Structural and Geotechnical Engineering, AICSGE6, Structural Engineering Department, Faculty of Engineering, Alexandria University, Vol. II, April 15-17, 2007
- 4th Middle East Symposium on Structural Composites for Infrastructure Applications, May, Alexandria, Egypt, 2005
- 4th International Conference on Structural & Geotechnical Engineering and Construction Technology, March, Mansoura, Egypt, 2004.

LIST OF PUBLICATIONS

Papers published in refereed international journals:

- (1) Michael Rostami, Khaled Sennah and **Hamdy M. Afefy** (2018) "Ultimate capacity of barrier-deck anchorage in MTQ TL-5 barrier reinforced with headed-end, high-modulus, sand-coated GFRP bars" Canadian Journal of Civil Engineering, Vol. 45, April, 263-275.
- (2) **Hamdy M. Afefy**, Nesreen M. Kassem and Mohamed H. Mahmoud, (2018) "Retrofitting of defected reinforced concrete framed structures using two emulative techniques" *Magazine of Concrete Research*, Online
- (3) **Hamdy M. Afefy**, Nesreen M. Kassem and Salah El-Din F. Taher, (2018) "Capacity Magnification by Imposing Composite Action of Precast Concrete Flanged Girders" *KSCE Journal of Civil Engineering*, Online.
- (4) Radek Wodzinowski, Khaled Sennah and **Hamdy M. Afefy**, (2018) "Free vibration analysis of horizontally curved composite concrete-steel I-girder bridges" *Journal of Constructional Steel Research*, Vol. 140C, January, pp. 47-61.
- (5) Samar Gohar, **Hamdy M. Afefy**, Nesreen M. Kassem and Salah El-Din F. Taher, (2017) "Flexural performance of self-compacted perforated concrete beams under repeated loading" *Engineering Structures*, Vol. 143C, July, pp. 441-454.
- (6) Anwar Androus, **Hamdy M. Afefy** and Khaled Sennah, (2017) "Investigation of free vibration and ultimate behavior of composite twin-box girder bridges" *Journal of Constructional Steel Research*, Vol. 130, March, pp. 177-192.



- (7) **Hamdy M. Afefy** and El-Tony M. El-Tony, (2016) "Simplified design procedure for reinforced concrete columns based on equivalent column concept" *International Journal of Concrete Structures and Materials*. Vol.10, No.3, pp.393–406, September 2016
- (8) **Hamdy M. Afefy**, Khaled Sennah and Antonio, Cofini (2016) "Retrofitting Actual-Size Precracked Precast Prestressed Concrete Double-Tee Girders using Externally Bonded CFRP Sheets" *ASCE Journal of Performance of Constructed Facilities*. 30(2), 04015020
- (9) **Hamdy M. Afefy** and El-Tony M. El-Tony, (2016) "Bond Behavior of Embedded Reinforcing Steel Bars for Varying Levels of Transversal Pressure" *ASCE Journal of Performance of Constructed Facilities*. 30(2), 04015023
- (10) **Hamdy M. Afefy**, Khaled Sennah, and Hamid Akhlagh-Nejat (2016) "Experimental and analytical investigations on the flexural behavior of CFRP-strengthened steel-concrete composite girders" *Journal of Constructional Steel Research*, Vol. 120, April, pp. 94-105.
- (11) **Hamdy M. Afefy**, Nesreen M. Kassem, Mohamed H. Mahmoud and Salah El-Din F. Taher (2016) "Efficient strengthening of opened-joint for reinforced concrete broken slabs" *Composite Structures*, Vol. 136, February, pp. 602-615.
- (12) Tarek M Elshafiey, Ahmed M Atta, **Hamdy M. Afefy** and Mohamed E Ellithy (2016) "Structural performance of reinforced concrete exterior beam–column joint subjected to combined shear and torsion" *Advances in Structural Engineering*, January, pp. 1-14.
- (13) Khaled Sennah and **Hamdy M. Afefy** (2015) "Development and study of deck joints in prefabricated concrete bulb-tee bridge girders: Conceptual design" *Bridge Structures*, Vol. 11, No. 1, 2, pp. 33–53.
- (14) **Hamdy M. Afefy**, Khaled Sennah, Siyin Tu, Mohamed Ismail, and Reza Kianoush (2015) "Development and study of deck joints in prefabricated concrete bulb-tee bridge girders: Experimental evaluation" *Bridge Structures*, Vol. 11, No. 1,2, pp. 55–71
- (15) Sirajul Islam, **Hamdy M. Afefy**, Khaled Sennah and Hossein Azimi (2015) "Bond characteristics of straight- and headed-end ribbed-surface GFRP bars embedded in high-strength concrete" *Construction & Building Materials*, Vol. 83, May, pp. 283–298.
- (16) **Afefy, H. M.**, Kassem, N. and Hussein, M., (2015) "Enhancement of flexural behavior of CFRP-strengthened reinforced concrete beams using engineered cementitious composites transition layer" *Structure and Infrastructure Engineering*, Vol. 11, No. 8, pp. 1042–1053.
- (17) **Afefy, H. M.**, Hussein, M., (2014) "Structural performance of RC slabs provided by precast ECC strips in tension cover zone" *Construction & Building Materials*, Vol. 65, August, pp. 103–113.
- (18) **Afefy, H. M.** and Fawzy, T. M., (2013) " Strengthening of RC one-way slabs including cut-out using different techniques " *Engineering Structures*, Vol. 57C, December, pp. 23-36.
- (19) Hussein M., **Afefy, H. M.**, and Khalil A. A., (2013)" Innovative repair technique for RC beams predamaged in shear" *Journal of Composites for Construction, ASCE*, 17(6), 04013005.
- (20) **Afefy, H. M.**, Hussein, M., and Fawzy, T., (2013) "Rehabilitation of defected RC stepped beams using CFRP" *Engineering Structures*, Vol. 49, pp. 295- 305.



- (21) Hussein, M., **Afey, H. M.**, and Khalil A. A., (2012)" Efficient Repair Technique for RC Beams Pre-Damaged in Shear" *International Journal of Civil Engineering Research*, India, Vol. 3, No. 3, pp. 257-273.
- (22) Hussein M., and **Afey H. M.**, (2012) "Moment redistribution and ductility of RC continuous beams strengthened with CFRP strips" *International Journal of Civil Engineering Research*, India, Vol. 3, No. 3, pp. 241-255.
- (23) **Afey, H. M.**, (2012) "Ultimate flexural rigidity for stability analysis of RC beam column members, Proceedings of the Institution of Civil Engineers, *Structures and Buildings*, Vol. 165, Issue SB6, 299-308.
- (24) **Afey, H. M.**, Atta, A. M., and Taher, S.F., (2012) "Behavior of strengthened composite castellated beams pre-stressed with external bars: Experimental study" *Arabian Journal for Science and Engineering*, KFUPM, KSA, Vol. 37, No. 6, pp. 1521- 1534.
- (25) **Afey, H. M.**, Hussein, M., and Taher, S.F., (2011) "Behavior of a concrete-filled steel tube beam-column T-joint" ICE, *Structures and Buildings*, Vol. 164, Issue SB4, 229-238.
- (26) **Afey, H. M.**, Taher, S.F and El-Metwally, S. E., (2009) "A New Design Procedure for Braced Reinforced High Strength Concrete Columns under Uniaxial and Biaxial Compression" *Arabian Journal for Science and Engineering*, KFUPM, KSA, Vol. 34, No. 2B, pp. 349-377.
- (27) Taher, S.F and **Afey, H. M.**, (2008), "Role of Masonry Infill in Seismic Resistance of RC Structures", *Arabian Journal for Science and Engineering*, KFUPM, KSA, Vol. 33, No. 2B, pp. 291-306.
- (28) **Afey, H. M.**, Taher, S.F., Khalil, A. A. and Issa, M. E., (2002), " Statistically Equivalent Nonlinear Finite Element Model for Infilled R. C. Framed Systems", *Engineering Computations*, MCB UP Limited, Vol. 19 No. 2, pp. 190-205.

Papers published in refereed local journals:

- (29) Tarek El-shafiey, Ahmed Atta, **Hamdy Afey**, Mohamed Ellithy, (2015), "Experimental Study of RC Exterior Beam-Column Joint Subjected to Torsional Moment" Journal of Engineering Research (JER), Faculty of Engineering, Tanta University, Vol. 1, No.1, pp. 48-59.
- (30) Hussein, M., **Afey, H. M.**, Kassem, N., and Fawzy, T., (2014)" Strengthening of defected beam-column joints using CFRP" Journal of advanced research, Cairo University, (2014) 5, 67-77.
- (31) **Afey, H. M.**, (2013) " Progressive Collapse of RC Structures" Article review submitted to Supreme Counsel of Universities, Egyptian University Promotion Committee (50), 79 p.
- (32) **Afey, H. M.**, Taher, S.F., El-Metwally, S. E., and Etman, E. E., (2007), "Framing Effect on Slenderness Characteristics of High Strength Reinforced Concrete Columns" Ain Shams Scientific Bulletin, Vol. 42, No. 2, June 30, pp 127-149.
- (33) **Afey, H. M.**, Taher, S.F., Khalil, A. A. and Issa, M. E., (2004), "Damage Evolution and Frequency Attenuation of Infilled Reinforced Concrete Frames", Ain Shams Scientific Bulletin, Vol. 39, No. 2, June 30, pp 13-29.
- (34) **Afey, H. M.**, Taher, S.F., Khalil, A. A. and Issa, M. E., (2001)," Nonlinear Response of Reinforced Concrete Infilled Frames under Lateral Dynamic Excitations", Journal of



Engineering and Applied Science, Cairo University, Vol. 48, No. 6, December, pp 1149-1163.

Papers published in refereed international conference proceedings:

- (35) Ahmed Nashaat Ali, **Hamdy M. Afefy**, Nesreen M. Kassem and Salah El-Din F. Taher, (2017), “Behavior of Non-prismatic Reinforced Self-Compacted Concrete Beams Subjected to Repeated Loading” International Conference on Advances in Structural and Geotechnical Engineering, ICASGE’17, Hurghada, Egypt, 27-30 March.
- (36) Mohamed A. Kassem, Tarek F. El-Shafeiy, Mohamed Hussein, **Hamdy M. Afefy** and Ali Hassan, (2017), “Shear Behaviour of SHCC Dry Joints in Precast Construction” International Conference on Advances in Structural and Geotechnical Engineering, ICASGE’17, Hurghada, Egypt, 27-30 March.
- (37) Amira B. Elnagar, Ahmed T. Baraghith, **Hamdy M. Afefy** and Mohamed H. Mahmoud, (2017), “Effect of Internal Reinforcement on the Tensile Characteristics of the UHP-SHCC Material” International Conference on Advances in Structural and Geotechnical Engineering, ICASGE’17, Hurghada, Egypt, 27-30 March.
- (38) Ashraf Z. Elsabry, **Hamdy M. Afefy**, Ahmed M. Atta and Salah El-Din F. Taher, (2017), “Delayed Crack Formation in Negative Moment Zone by Innovative Prestressing Mechanism” International Conference on Advances in Structural and Geotechnical Engineering, ICASGE’17, Hurghada, Egypt, 27-30 March.
- (39) Sara Khedr, Ahmed Baraghith, **Hamdy M. Afefy** and Emad Etman, (2017), “Shear Strength of Fiber Reinforced Concrete Beams Made of Recycle Aggregate” International Conference on Advances in Structural and Geotechnical Engineering, ICASGE’17, Hurghada, Egypt, 27-30 March.
- (40) Hamida Ibrahim, **Hamdy M. Afefy**, Nesreen M. Kassem and Salah El-Din F. Taher, (2017), “Structural Performance of Self-compacted Concrete Beams with Rectangular Perforations” International Conference on Advances in Structural and Geotechnical Engineering, ICASGE’17, Hurghada, Egypt, 27-30 March.
- (41) **Hamdy M. Afefy**, Hamidreza Khederzadeh and Khaled Sennah, (2017), “Nondestructive Evaluation for Defected Grouted Prestressed Cable Ducts in Posttensioned Deck Slabs” International Conference on Advances in Structural and Geotechnical Engineering, ICASGE’17, Hurghada, Egypt, 27-30 March.
- (42) **Hamdy M. Afefy** and Khaled Sennah, (2017), “Inspection of Actual-Size Damaged CFRP-Strengthened Girder Subjected to Sever Environmental Conditions using Ultrasonic Shear-Wave Technique” International Conference on Advances in Structural and Geotechnical Engineering, ICASGE’17, Hurghada, Egypt, 27-30 March.
- (43) Jennifer Lu, Khaled Sennah, Mahmoud Sayed-Ahmed and **Hamdy M. Afefy**, (2015), “Development Length of Sand-Coated Glass Fiber Reinforced Polymer Bars with Headed-end Embedded in High-Performance Concrete” The CSCE Annual Conference, Building on Our Growth Opportunities, May 27 to 30, 2015, Regina, Saskatchewan, Canada.
- (44) Md Sirajul Islam, Khaled Sennah and **Hamdy M. Afefy**, (2015), “Bond Behavior of Ribbed-Surface, Headed-End, GFRP Bars Embedded in High-Strength Concrete” The CSCE Annual Conference, Building on Our Growth Opportunities, May 27 to 30, 2015, Regina, Saskatchewan, Canada.



- (45) Tarek El-shafiey, Ahmed Atta, **Hamdy Afefy**, Mohamed Ellithy, (2015), "Experimental Study of RC Exterior Beam-Column Joint Subjected to Torsional Moment" International Conference on Advances in Structural and Geotechnical Engineering, ICASGE'15, Hurghada, Egypt, 6-9 April.
- (46) **Afefy, H. M.**, (2012), "Progressive Collapse of RC Continuous Framed Beam Systems", 14th International Conference on Structural Faults & Repair-2012, Edinburgh, Scotland, UK. 3-5 July.
- (47) Etman, E. E, Atta, A. M, **Afefy, H. M.**, and Kassem, N. M., (2012)" Retrofitting and Strengthening of RC Beam-Column T-Joints under External Pre-Stressed Bars", 14th International Conference on Structural Faults & Repair-2012, Edinburgh, Scotland, UK. 3-5 July.
- (48) **Afefy, H. M.**, Etman, E. E., Taher, S. F., El-Metwally, S. E., and Sennah, K. M., (2007), "Behavior of Fixed-Hinged Ended Braced Reinforced Concrete Columns under Biaxial Loading", Proceedings of the 6th Alexandria International Conference on Structural and Geotechnical Engineering, AICSGE6, Structural Engineering Department, Faculty of Engineering, Alexandria University, Vol. II, April, pp. RC215-RC233.
- (49) **Afefy, H. M.**, Taher, S.F., El-Metwally, S. E., and Etman, E. E., (2007), " Experimental Investigation on High Strength Reinforced Concrete Columns under Eccentric Loading" Proceedings of 8th International Conference on Concrete Technology in Developing Countries, Hammamat, Tunis, November, 8-9.

References

Prof. Dr. Emad Etman, Dean, Faculty of Engineering, Tanta University, Tanta, Egypt, Tel: (+2) 0100 788 8833, E-mail: emad.etman@f-eng.tanta.edu.eg

Prof. Dr. Khaled Sennah, Chair of Civil Engineering Department, Faculty of Engineering and Architectural Science, Ryerson University, 350 Victoria St., Toronto, Ontario, Canada, M5B 2K3, Tel: (416) 979-5000/6460, E-mail: ksennah@ryerson.ca