### MOHAMED M. S. DARWISH, PhD, PEng

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**RESEARCH DATABASES**

Web of Science Researcher ID: U-2874-2017

<https://publons.com/researcher/2009561/mohamed-darwish/>

<https://scholar.google.com.eg/citations?user=zQKN7nsAAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=57189048238>

<https://orcid.org/0000-0002-1372-6922>

**AREAS OF EXPERTISE**

Structural Engineering, Structural Dynamics, Sustainable Construction and Construction Technology.

# EDUCATION

**Ph.D. Engineering Science**, Civil Engineering, University of Western Ontario (2006-2010).

* **Thesis Studied:** Characteristics and Design of Downburst Loaded Transmission Lines.

**MSc.** Construction Engineering, American University in Cairo (2004-2006)

* **GPA :** 3.925/4
* **Thesis** **Studied:** Numerical Modeling of In-fill Reinforced Concrete Wall in Seismic Retrofit of Reinforced Concrete Frame.

**BSc.**, Construction Engineering, American University in Cairo (1999-2004)

* **Overall GPA :** 3.838/4 **Major GPA :** 3.81/4
* **Senior Project I:** Structural design of the building B7 - Smart Village.
* **Senior Project II:** Construction management of building B7 - Smart Village.

# MERITS & AWARDS

* ***Honors, American University in Cairo:***
	+ Graduated with Summa cum Laude (With Highest Honors).
	+ Exemplary Construction Engineering student for the year 2003- 2004.
* ***Fellowships, American University in Cairo:***
	+ - Graduate Merit fellowship for the academic year 2004 – 2005.
		- Graduate Merit fellowship FALL 2005.

**PROFESSIONAL EXPERIENCE**

## *Construction Management Specialist,* Chemonics Egypt, August 2016 – September 2020

* Prepared the monitoring and evaluation plan for the Upper Egypt and North-Sinai water and sanitation development projects funded by the USAID.
* Offered a training program on “Construction Project Management” 4-day program. Organized by the CHEMONICS Egypt in association with USAID, 2017
* Prepared the final reports for the monitoring and evaluation plan for the Upper Egypt and North-Sinai water and sanitation development projects funded by the USAID.
* Served as a team member in a multi-disciplined team of experts proposing different alternatives for the water desalination plant proposed in Elroda village in North-Sinai funded by the USAID.
* Prepared the feasibility study for the water desalination plant proposed in Elroda village in North-Sinai funded by the USAID.

## *Structural Engineer,* March Consulting Associates Inc., Saskatoon, SK, Canada, October 2010 – December 2011

* Taught a technical **earthquake engineering** course to the structural engineers in the firm covering structural dynamics, seismology, earthquake engineering and the application of these concepts in the National building code of Canada (NBCC).
* Analyzed several industrial and designed several structures (bins, bin supporting structures and feeder supporting floors) for Mosaic, Cameco, PCS Allan and PCS Cory.
* Inspected various structures within the Mosaic Esterhazy K2 mine. The inspected structures included steel structures (beams and columns) and concrete structures (slabs and foundations).

## *Part–time Structural Engineer,* Engineering Analysis and Dynamics Ltd., London, Ontario, Canada, January 2007 – May 2009

* Assessed the structural performance of over 500 electrical poles due to the addition of FO cables.
* Assisted in the preparation of an earthquake engineering professional course for three years.
* Assessed the structural performance of high-rise buildings.

## The American University in Cairo, Egypt:

## *Planning Engineer,* Engineering Services Unit, June 2004 – January 2006 : Performed claim analysis for a major construction project.

**ACADEMIC WORK EXPERIENCE**

## *Assistant Professor,* Ahram Canadian University, Egypt, September 2017 – current

* Instructor for the courses: CBE202 (*Structural Analysis I*), CBE303 (*Structural Analysis II*), CBE306 (*Design of Reinforced Concrete Structures I*), CBE307 *(Techniques of planning, scheduling & control)*, CBE309 (*Design of Reinforced Concrete Structures II*), CBE401 (*Construction Management I*), CBE402 (*Masonry Structures*), CBE407 (*Matrix structural analysis*), CBE504 (*Senior Project I*), CBE505 (*Senior Project II*) and CBE510 (*Advanced Topics in Structural Engineering*).

## *Adjunct Faculty,* The American University in Cairo, Egypt, January 2012 – current

* Instructor for the courses: ENGR1001 (*Introduction to Engineering*), ENGR2112 (*Strength and testing of materials*), CENG3111 (*Structural Analysis*), CENG3152 (*Structural Design for Architects II*), CENG4253 (*Methods and Equipment for Construction II*), CENG4911 (*Selected Topics: Construction for Underdeveloped Communities*), CENG4980 (*Senior Project I*) and CORE2098 (*Selected Topics on Egypt: Building for Underdeveloped Egyptian Communities*).
* Performed research with Prof. Safwan Khedr, Prof. Ezzat Fahmy, Prof. Mohamed N. Abouzeid, Prof. Khaled Nassar, Prof. Ezzeldin Yazid and Prof. Salah Elhaggar in which graduate and undergraduate students were co-supervised.

## *Part-time Faculty,* The German University in Cairo, Egypt, January 2016 – January 2017

* Instructor for the course CIS603 (*Reinforced concrete design II*).
* Supervised research performed by graduate and undergraduate students.

## Department of Civil and Environmental Eng., The University of Western Ontario, London, ON, Canada, September 2006 – August 2010

* ***Teaching assistant:*** assisted in teaching of Structural Theory III & IV.
* ***Research assistant:*** assisted in the research group supervised by Prof. A. El Damatty. Worked on the development of design procedure for transmission lines under downburst loading.

## The American University in Cairo, Egypt:

## *Teaching Assistant*, Construction Engineering Department, September 2004 – June 2006: Assisted in teaching of engineering drawing, statics, numerical methods and construction project management courses.

# RESEARCH PROJECTS

Co-PI in the following projects:

* Preparation of the curriculum for the joint master’s program in construction data analytics. Prospectively funded by the Erasmus+ EU program under the Erasmus Mundus Design Measures (EMDM). This project is co-principally investigated with Dr. Ibrahim Aboutaleb and Dr. Khaled Nassar.
* Research on the development, design and characteristics of panels made of wood/plastic waste. Jointly funded by the School of Sciences and Engineering at AUC and CPC holding Inc. This project is co-principally investigated with Dr. Khaled Nassar and Dr. Salah El-Haggar.
* Research on the use of locally available Casuarina wood in the construction of permanent and temporary structures. Internally funded by the School of Sciences and Engineering at AUC. This project is co-principally investigated with Dr. Khaled Nassar.
* Research on the use of compressed earth blocks in the construction of eco-friendly structures. This project is co-principally investigated with Dr. Safwan Khedr. Currently, phases I of this research is internally funded by the AUC while a research proposal for funding phase II has been submitted.

# GRADUATE THESIS SUPERVISED

* Mr. Ahmed Yehia Elsayed.
PhD. Dissertation: **Design and Industrial Application of an Innovative Integrated Formwork System**
American University in Cairo, School of Sciences and Engineering, Construction Engineering Department
Status: To be completed Spring 2023
* Mr. Mostafa Mohamed Hussein.
MSc. Thesis: **Design and Constructability of False-work System using Casuarina Wood**
American University in Cairo, School of Sciences and Engineering, Construction Engineering Department
Status: Completed Spring 2020
* Mr. Ahmed Yehia Elsayed.
MSc. Thesis: **Design and Constructability of Funicular Arched Steel Truss False-work**
American University in Cairo, School of Sciences and Engineering, Construction Engineering Department
Status: Completed Spring 2017
* Mr. Ahmed Hossam Eldin Hanafy.
MSc. Thesis: **Egyptian Code Seismic Load Design Provisions for Moment Resisting Frames**
German University in Cairo, Faculty of Engineering, Civil Engineering Department
Status: Completed Fall 2016

# JOURNAL PUBLICATIONS

Hussein, M., Nassar, K. and [**Darwish, M**](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)**.** (2022) “Design and Characteristics of a Novel Casuarina Glauca Wooden Truss Formwork”, *ASCE Practice Periodical of Structural Design and Construction.* DOI: [https://doi.org/10.1061/(ASCE)SC.1943-5576.0000694](https://doi.org/10.1061/%28ASCE%29SC.1943-5576.0000694)

Eldegwy, A., Elsayed, A. and [**Darwish, M**](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)**.** (2022) “Aerodynamics of Ancient Egyptian Obelisks and their Structural Response to Boundary Layer Wind”, *Environmental Fluid Mechanics.* DOI: <https://doi.org/10.1007/s10652-022-09877-y>

Elsayed, A., [**Darwish, M**](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)**.** and Nassar, K. (2021) “Design and Constructability of a Novel Extendable Arched Steel Truss Falsework”, *ASCE Journal of Construction Engineering and Management,* 147(3). DOI: [https://doi.org/10.1061/(ASCE)CO.1943-7862.0001989](https://doi.org/10.1061/%28ASCE%29CO.1943-7862.0001989).

[**Darwish, M**](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)**.**, Khedr, S, Halim, F and Khalil, R (2020) “Novel Simplified Construction of Walls and Prisms made of CEBs and Earth Based Mortar”, Submitted on March 2020 to *ASCE Practice Periodical of Structural Design and Construction,* 25(4). DOI: [https://doi.org/10.1061/(ASCE)SC.1943-5576.0000525](https://doi.org/10.1061/%28ASCE%29SC.1943-5576.0000525)

Hussein, M., Nassar, K. and [**Darwish, M**](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)**.** (2019) “Mechanical Properties of Egyptian Casuarina Wood”, *ASCE Journal of Materials in Civil Engineering,* 31(12). DOI: [https://doi.org/10.1061/(ASCE)MT.1943-5533.0002955](https://doi.org/10.1061/%28ASCE%29MT.1943-5533.0002955)

Youssef, P., Zahran, K., Nassar, K., [**Darwish, M**](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)**.** and Elhaggar, S. (2019) “Manufacturing of Wood-Plastic Composite Boards and their Mechanical and Structural Characteristics”, *ASCE Journal of Materials in Civil Engineering,* 31(10). DOI: [https://doi.org/10.1061/(ASCE)MT.1943-5533.0002881](https://doi.org/10.1061/%28ASCE%29MT.1943-5533.0002881)

# [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and Rashwan, Mohamed (2018) “Structural Dynamic Characteristics of Ancient Egyptian Obelisks and their Responses to Earthquake Loads” *ASCE Practice periodical on structural design and construction*, 23(2). DOI: [https://doi.org/10.1061/(ASCE)SC.1943-5576.0000363](https://doi.org/10.1061/%28ASCE%29SC.1943-5576.0000363)

# [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Elsayed, A. and Nassar, K. (2018) “Design and Constructability of a Novel Funicular Arched Steel Truss (FAST) Falsework”, *ASCE Journal of Construction Engineering and Management,* 144(3). DOI: [https://doi.org/10.1061/(ASCE)CO.1943-7862.0001449](https://doi.org/10.1061/%28ASCE%29CO.1943-7862.0001449)

# [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2017) “Design of Funicular Arched Wooden False Work” *ASCE Practice Periodical on Structural Design and Construction*, 22(4). DOI: [https://doi.org/10.1061/(ASCE)SC.1943-5576.0000346](https://doi.org/10.1061/%28ASCE%29SC.1943-5576.0000346)

# [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Romaih, A., Taha, S. and [Nassar, K.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2016) “Analysis and Design of Cantilevered Steel False Work Systems Subjected to Earthquake Loads” *Journal of Construction Engineering, management and technology*

# [Darwish, M.M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and [El Damatty, A.A.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2016) “Critical parameters and configurations affecting the analysis and design of transmission lines under downburst loading” *ASCE Practice Periodical on Structural Design and Construction*, 22(1). DOI: [https://doi.org/10.1061/(ASCE)SC.1943-5576.0000301](https://doi.org/10.1061/%28ASCE%29SC.1943-5576.0000301)

# [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and [Nassar, K.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2015) “Design of Braced and Unbraced Cantilevered Steel False Work” *ASCE Practice Periodical on Structural Design and Construction*, 21(2). DOI: [https://doi.org/10.1061/(ASCE)SC.1943-5576.0000280](https://doi.org/10.1061/%28ASCE%29SC.1943-5576.0000280)

# [Darwish, M.M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and [El Damatty, A.A.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2011) “Behaviour of Self Supported Transmission Line Towers under Stationary Downburst Loading” *Wind and Structures*, 14(5), 481-498.

# [Darwish, M.M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , [El Damatty, A.A.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and [Hangan, H.M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2010) “Dynamic characteristics of Transmission Line Conductors and Behaviour under Turbulent Downburst Loading” *Wind and Structures*, 13(4), 327-346.

# PATENTS

# Elsayed, A., [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and Nassar, K. (2021) “Funicular Arched Steel Truss Falsework” *US Patent 11,028,603*

# Elsayed, A., [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and Nassar, K. “Extendable Arched Steel Truss Falsework (EAST)” *Egyptian Patent application no. 2068/2020*

# BOOKS

# [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) “Heavy Construction of Infrastructures: How to choose the right method?” *GRIN Verlag, Germany 2016*. ISBN 978-3-656-98598-3

# [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) “Numerical Modeling of Infill RC Walls in Seismic Retrofit of RC Frame” *Lambert Academic Publishing, Saarbrucken, Germany 2013*. ISBN 978-3-659-35571-4

# CONFERENCE PUBLICATIONS

# [Darwish, M](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)., Ismail, H., Orz, A., Ammar, A., Eldebaby, O., Solaiman, O., Nassar, K., Abouzeid, M. N. and Youssef, P. (2021) “Manufacturing and Characteristics of Structural Sections from Wood Plastic Composites” *CSCE Structures Specialty Conference 26 –29 May, 2021* *- "* *Inspired by Nature"*

# [Darwish, M](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)., Azer, R., Azmy, A., Hegazy, A., Elleissy, S., Morsi, A. Nassar, K., and Youssef, P. (2021) “New Technology for Drying Wood using Quicklime” *CSCE International Conference on Engineering Materials 26 –29 May, 2021* *- "* *Inspired by Nature"*

# Abdellatif N., [Darwish, M](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)., Nassar, K., Youssef, P., Dardir, A., Ahmed, A., Eltamimy, M., Mamdouh, M. and Abdelazim, R. (2021) “Manufacturing and Mechanical Testing of Casuarina Glauca Blockboards.” In: Shehata H., El-Badawy S. (eds) Sustainable Issues in Infrastructure Engineering. Sustainable Civil Infrastructures. Springer, Cham. <https://doi.org/10.1007/978-3-030-62586-3_2>

# Elsobky, B., Attia, N., Moustafa, O., Yanni, R., Abdeldayem, M., Elwelleily, O., Fahmy, E., [Darwish, M](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)., Raswan, M., Abouzeid, M. N. (2020) “Use of Granite Slurry in Masonry Manufacturing and Wall Construction”. In: Rodrigues H., Morcous G., Shehata M. (eds) Recent Research in Sustainable Structures. GeoMEast 2019. Sustainable Civil Infrastructures. Springer, Cham. <https://doi.org/10.1007/978-3-030-34216-6_3>

# [Darwish, M](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)., Khedr, S., Halim, F., & Khalil, R. (2019) “Development and Performance of Manual Technique used in Production of Compressed Earth Blocks” *GeoMEast 2019 International Conference and Exhibition. Cairo, Egypt: Springer.* DOI:10.1007/978-3-030-34249-4\_1

# Halim, F., Khalil, R., Khedr, S., [Darwish, M](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)., Saleh, A., El-Arabi, D., Henry, S., Elmenoufy, A. and Said, J. (2019) “Development of Earth-Based Mortars for Usage in Earth Construction” *GeoMEast Conference and Exhibition. Cairo, Egypt: Springer*. DOI:10.1007/978-3-030-34190-9\_2

# Mahmoud, A., Said, J., Bader, S., Sayed, M., Fayez, M., Yacoub, O., Youssef, P., [Darwish, M](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)., Nassar, K., Sayed-Ahmed, E.Y. and AbouZeid, M.N. (2019) “Design and testing of Pre-engineered Prefabricated Casuarina Wooden Truss” *Proceedings of The Seventh International Conference on Structural Engineering, Mechanics and Computation (SEMC 2019), Cape Town, South Africa, 2019*.

# Elsayed, A, [Darwish, M](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr)., Nassar, K., Elkady, O., and Hussein, M. (2019) “Testing and strengthening of funicular arched steel truss falsework” *Proceedings of The Seventh International Conference on Structural Engineering, Mechanics and Computation (SEMC 2019), Cape Town, South Africa, 2019*.

# Hussein, M., [Darwish, M](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr). and Nassar, K. (2019) “The effect of moisture content on some mechanical properties of Casuarina wood” *Proceedings of The Seventh International Conference on Structural Engineering, Mechanics and Computation (SEMC 2019), Cape Town, South Africa, 2019*.

# Ali, S., Zahran, K., Assal, M., Sakkari, M., Nasser, O., Diab, S., Tageldin, M., [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Nassar, K. and Youssef, P. (2018) “Use of Waste Materials in Construction of Low-Cost Engineered Wood” *7th International CSCE Materials Specialty Conference, June 14 – 17, 2018* *– Fredricton, NB, Canada*

# AbdelSattar, M, Okasha, H, Sabry, H, Bassiouny, O, Dorgham, H, [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , Sayed-Ahmed, E. and Abouzeid, M. (2018) “Properties of Spinned Steel and Bond Within Concrete” *7th International CSCE Materials Specialty Conference, June 14 – 17, 2018* *– Fredricton, NB, Canada*

# Attia, N, Moustafa, O, Abdeldayem, M, Yanni, R, Elsobky, B, Elweleily, O, [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , Rashwan, M, Abouzeid, M. and Fahmy, E. (2018) “Use of Granite Manufacturing Waste in Concrete Masonry Production” *7th International CSCE Materials Specialty Conference, June 14 – 17, 2018* *– Fredricton, NB, Canada*

# [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2017) “Variation of the Structural Dynamic Characteristics of the Great Pyramid with the Limestone Properties” in book “Facing the Challenges in Structural Engineering Proceedings of the 1st GeoMEast International Congress and Exhibition, Egypt 2017 on Sustainable Civil Infrastructures” pp. 1 – 11 DOI: 10.1007/978-3-319-61914-9\_1

# [Rashwan, Mohamed and Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2017) “Structural Dynamic Characteristics of an Ancient Egyptian Obelisk” in book “Facing the Challenges in Structural Engineering Proceedings of the 1st GeoMEast International Congress and Exhibition, Egypt 2017 on Sustainable Civil Infrastructures” pp. 12 – 22 DOI: 10.1007/978-3-319-61914-9\_2

# Magdy, [J, Khalil, Z, Ashraf, M and Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2017) “Design and Structural Dynamic Characteristics of an Irregular Staircase Under Earthquake Loading” in book “Facing the Challenges in Structural Engineering Proceedings of the 1st GeoMEast International Congress and Exhibition, Egypt 2017 on Sustainable Civil Infrastructures” pp. 83 – 93 DOI: 10.1007/978-3-319-61914-9\_7

# Hanafy, [A.H., Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and Baraka, M (2017) “Egyptian Code Seismic Load Design Provisions for Moment Resisting Frames” in book “Facing the Challenges in Structural Engineering Proceedings of the 1st GeoMEast International Congress and Exhibition, Egypt 2017 on Sustainable Civil Infrastructures” pp. 94 – 103 DOI: 10.1007/978-3-319-61914-9\_8

# [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Elsayed, Ahmed and Rashwan, Mohamed (2017) “STRUCTURAL DYNAMIC CHARACTERISTICS OF THE LONDON ANCIENT EGYPTIAN OBELISK” *6th CSCE International Conference on Engineering Mechanics and Materials May 31 – June 3, 2017* *- "Leadership in Sustainable Infrastructure"*

# AbdelAziz, Ahmed, [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and Nassar, Khaled (2017) “DESIGN OF FUNICULAR ARCHED TRUSS STEEL FALSE-WORK” *6th CSCE/CRC International Construction Specialty Conference May 31 – June 3, 2017* *- "Leadership in Sustainable Infrastructure"*

# [Darwish, Mohamed](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2016) “Design of Funicular Arched Wooden False Work” *SBE16 – Sustainable building environment conference, Cairo, Egypt, Nov 29–Dec 1, 2016*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and [Afifi, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2016) “Selection Criteria for Heavy Construction of Infrastructures” *CSCE - Annual Conference of the Canadian Society for Civil Engineering June 1–04, 2016* *- "Resilient Infrastructure"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), [Attia, A.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), [Yossef, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), [Yossif, K.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and [Khalil, I.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2016) “Selection Criteria for Pipeline Construction” *CSCE - Annual Conference of the Canadian Society for Civil Engineering June 1–04, 2016* *- "Resilient Infrastructure"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and [Nassar, K.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2016) “Design of Wooden Truss Cantilevered False Work” *CSCE - Annual Conference of the Canadian Society for Civil Engineering June 1–04, 2016* *- "Resilient Infrastructure"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), [Romaih, A.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), [Taha, S.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and [Nassar, K.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2016) “Design of Overhanging Cantilevered False Work” *CSCE - Annual Conference of the Canadian Society for Civil Engineering June 1–04, 2016* *- "Resilient Infrastructure"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , [Nassar, K.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Yossef, M. and Kasbar, M. (2015) “Design of Cantilevered Steel Truss Form Work” *CSCE - Annual Conference of the Canadian Society for Civil Engineering May 27–30, 2015* *- "Building on Our Growth Opportunities"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , [Almahallawi,T., Akroush, N.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Kasbar, M., Amin, L. and Helmy, N. (2015) “Selection Criteria for Short-Span Bridges Construction Methods” *CSCE - Annual Conference of the Canadian Society for Civil Engineering May 27–30, 2015* *- "Building on Our Growth Opportunities"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , [Ghowiba,R., Afifi, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Elhosary, M., Yazeed, M., Abdelaziz, A., Ghaly, O., Elmahdy, A. and Mohamed, A. (2015) “Selection Criteria for Long-Span Bridges Construction Methods” *CSCE - Annual Conference of the Canadian Society for Civil Engineering May 27–30, 2015* *- "Building on Our Growth Opportunities"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , [Henen,R., Saleh, S.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Rostom, M., Abdelhamid, O., Taha, K., Aly, G., Ahmed, A., Elkassas, H., and Elghandour, M. (2015) “Selection Criteria for Large Caissons” *CSCE - Annual Conference of the Canadian Society for Civil Engineering May 27–30, 2015* *- "Building on Our Growth Opportunities"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , [Thomas,M., Wadieh, K.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Eldeeb, N., Assy, M., Eweida, A., Wadie, S., William, M. and Ali, A. (2015) “Selection Criteria for Dam Construction Methods” *CSCE - Annual Conference of the Canadian Society for Civil Engineering May 27–30, 2015* *- "Building on Our Growth Opportunities"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , [Kamel,K., Balbaa, O.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), El-feel, A., Elsarag, J., Tawfeek, M., El-Embaby, A., El-Shaer, G., Montasser, O. and Aboali, R. (2015) “Selection Criteria for Elevated RC Tanks Construction” *CSCE - Annual Conference of the Canadian Society for Civil Engineering May 27–30, 2015* *- "Building on Our Growth Opportunities"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , [Aboali,R., Hashem, O.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Girgis, S., Assal, M., Youssef, A., Auf, M., Diab, A., Kirolos, M., Seif, M. and Shehata, Y. (2015) “Selection Criteria for Tunnel Construction” *CSCE - Annual Conference of the Canadian Society for Civil Engineering May 27–30, 2015* *- "Building on Our Growth Opportunities"*

# [Darwish, M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) , [Ismail,S., Eltohamy, Z.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr), Shaheen, M., Hamed, M., Elessawy, H. and Afifi, M. (2015) “Selection Criteria for Construction Methods of Multi-Storey Underground Buildings” *CSCE - Annual Conference of the Canadian Society for Civil Engineering May 27–30, 2015* *- "Building on Our Growth Opportunities"*

# [El Damatty, A.A.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and [Darwish, M.M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2012) “Sensitivity of Transmission Line Guyed Towers to Downburst Loading” *CSCE - Annual Conference of the Canadian Society for Civil Engineering 2012*.

# [Darwish, M.M.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BDarwish%2C+M.M.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) and [El Damatty, A.A.](http://www.engineeringvillage2.org/controller/servlet/Controller?CID=quickSearchCitationFormat&searchWord1=%7BEl+Damatty%2C+A.A.%7D&section1=AU&database=8195&yearselect=yearrange&sort=yr) (2008) “Dynamic characteristics of transmission line conductors under downburst loading”, *Proceedings, Annual Conference - Canadian Society for Civil Engineering* , v 3, p 1608-1617, 2008, *CSCE - Annual Conference of the Canadian Society for Civil Engineering 2008 - "Partnership for Innovation"*

# SERVICE ACTIVITIES

* Moderated two sessions in the CSCE 2021 structural specialty conference
* Reviewer for:
* Journal of Wind and Structures.
* CSCE conferences.
* GeoMEast conferences.
* Earthquake Engineering Bulletin.
* Journal of Innovative Infrastructures.
* ASCE Journal of Materials in Civil Engineering.
* ASCE Practice Periodical on Structural Design and Construction.
* ASCE Journal of Construction Engineering and Management.

**PROFESSIONAL DEVELOPMENT ACTIVITIES**

1. International Publishing of Scientific Research, Faculty and Leadership Development Canter (FLDC), Cairo University, Cairo, Egypt, March, 2019.
2. Exams and Students Evaluation Systems, Faculty and Leadership Development Canter (FLDC), Cairo University, Cairo, Egypt, March, 2019.
3. Change Management, Faculty and Leadership Development Canter (FLDC), Cairo University, Cairo, Egypt, March, 2019.
4. CLT’s Certificate-Assessment for Learning Track, Centre for Learning and Teaching (CLT), The American University in Cairo, Spring 2019.
5. CLT’s Teaching Enhancement Certificate II, Centre for Learning and Teaching (CLT), The American University in Cairo, Spring 2018.
6. CLT’s Teaching Enhancement Certificate I, Centre for Learning and Teaching (CLT), The American University in Cairo, Spring 2016.

# AFFILIATIONS

* Member of the Association of Professional Engineers and Geoscientists of Saskatchewan since 2010.
* Member of the Canadian Society for Civil Engineering since 2008.
* Member of the Egyptian syndicate of Engineers since 2004.

**PERSONAL INFORMATION**

* **Date of Birth:** September 5th, 1982
* **Marital Status:** Married
* **Military Service Condition:** Performed military service.
* **Nationality:** Egyptian – Canadian.

# REFERENCES FURNISHED UPON REQUEST