

Curriculum Vitae

Name: Prof. Amr Salah El-Dieb
Position: Professor, Concrete Technology & Structural Engineering, Civil & Environmental Engineering Department, College of Engineering, United Arab Emirates University, UAE.
Office Address: United Arab Emirates University
College of Engineering
Civil & Environmental Engineering Department
P.O. Box 15551, Al Ain, UAE
Tel.: Office; +971-3-7135153
Cellular; +971-50-1383072
Fax: +971-3-7134997
E-Mail: amr.eldieb@uaeu.ac.ae
Website: <http://www.eng.uaeu.ac.ae/en/profile/profile.shtml?banner=700014230>
Google Scholar: <http://scholar.google.ae/citations?hl=en&user=Z-uEIT0AAAAJ>

Academic Background

- 1994 Ph.D., Department of Civil Engineering, University of Toronto, Canada. Thesis title "*Permeation of Fluid through High Performance Concrete*".
- 1988 M.Sc., Department of Structural Engineering, Faculty of Engineering, Ain Shams University, Cairo, Egypt. Thesis title "*High Strength Concrete by Using Crushed Limestone from Local Quarries*".
- 1983 B.Sc., Department of Structural Engineering, Faculty of Engineering, Ain Shams University, Cairo, Egypt.

Employment History

A- Academic

- 2007-Present Professor, Concrete Technology & Structural Engineering, United Arab Emirates University, College of Engineering, Civil & Environmental Engineering Department, Al Ain, UAE.
- 2004-2007 Professor of Properties and Testing of Materials, Department of Structural Engineering, Ain Shams University, Cairo, Egypt.
- 1999-2004 Associate Prof., Department of Structural Engineering, Ain Shams University, Cairo, Egypt.
- 1998-1999 Assistant Prof., Department of Structural Engineering, Ain Shams University, Cairo, Egypt.
- 1997-1998 Post Doctoral Fellow, Department of Civil Engineering, University of Toronto, Toronto, Canada.
- 1994-1997 Assistant Prof., Department of Structural Engineering, Ain Shams University, Cairo, Egypt.
- 1990-1994 Teaching and Research Assistant, Department of Civil Engineering, University of Toronto, Toronto, Canada.
- 1988-1990 Associate Lecturer, Department of Structural Engineering, Ain Shams University, Cairo, Egypt.
- 1983-1988 Demonstrator, Department of Structural Engineering, Ain Shams University, Cairo, Egypt.

Employment History (Cont'd)

B- Administrative

2015-Present	Chairman of the Civil & Environmental Engineering Department, College of Engineering, United Arab Emirates University, UAE.
2013-2014	Acting Dean, College of Engineering, United Arab Emirates University, UAE.
2014-2015	Chairman of the Civil & Environmental Engineering Department Promotion Committee, College of Engineering, United Arab Emirates University, UAE.
2011-2013	Chairman of the Civil & Environmental Engineering Department, College of Engineering, United Arab Emirates University, UAE.
2010-2011	Director of the Civil Engineering Master Program (CEMP), College of Engineering, United Arab Emirates University, UAE.
2010-2011	Chair of the Civil & Environmental Engineering Department Graduate Studies Committee, College of Engineering, United Arab Emirates University, UAE.
2010-2011	Chair of the Civil & Environmental Engineering Department Research Committee, College of Engineering, United Arab Emirates University, UAE.
2009-2011	Chair of the Civil & Environmental Engineering Department Laboratories Committee, College of Engineering, United Arab Emirates University, UAE.
2008-2011	Chair of the Civil & Environmental Engineering Department Promotion Committee, College of Engineering, United Arab Emirates University, UAE.
2006-2007	Associate Director of the New Undergraduate Engineering Programs, Faculty of Engineering, Ain Shams University.
2006-2007	Head of the Building Engineering Undergraduate Program, Faculty of Engineering, Ain Shams University.
2004-2006	Head of the Materials Research Centre and Quality Control (MRC), Faculty of Engineering, Ain Shams University, Cairo, Egypt.
2004-2006	Head of the 4 th Civil Undergraduate Students Committee for Grades Recording, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
2005-2007	Vice Chairman of the Faculty of Engineering Undergraduate Student Union, Ain Shams University, Cairo, Egypt.
2003-2005	Member of the Faculty of Engineering Undergraduate Student Union, Ain Shams University, Cairo, Egypt.
2000-2002	Member of the Department of Structural Engineering Curriculum Development for the Properties and Testing of Materials division, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
1998-2007	Member of the Board of Directories of the Materials Research Centre and Quality Control (MRC), Faculty of Engineering, Ain Shams University, Cairo, Egypt.
1998-2004	Senior Member in the Committee for administrating undergraduate exams, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
1998-2004	Member of the Civil Engineering Committee for Undergraduate Students' Grades Recording, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
1994-2004	Member of the Materials Research Centre and Quality Control (MRC) Committees for specifying and examining new lab equipment and lab development, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
1994-1996	Senior Member in the Committees for conducting and presiding undergraduate exams, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
1983-1990	Member in the Committees for conducting and presiding undergraduate exams, Faculty of Engineering, Ain Shams University, Cairo, Egypt.

Teaching Experience

A- University Teaching

2007-Present

Professor, Concrete Technology & Structural Engineering, UAEU, College of Engineering, Civil & Environmental Engineering Department, Al Ain, UAE:

- CIVL 360 "Concrete Technology"
- CIVL 510 "Special Topics in Structural Engineering"
- CIVL 515 "Advanced Concrete Technology"
- CIVL 585 Graduation Project I
- CIVL 595 Graduation Project II
- CIVL 600 Graduate Seminar
- CIVL 605 Experimental Methods in Civil Engineering
- CIVL 631 Independent Studies in Civil Engineering
- CIVL 735 Advanced Topics in Civil Engineering I

2006-2007

Co-teaching "Professional Engineering Practice and Responsibilities" for undergraduate student in the Building Engineering New Undergraduate Program, Faculty of Engineering, Ain Shams University, Cairo, Egypt. Duties includes conducting lectures and tutorials, preparing course-teaching materials, setting and marking exams.

2004-2007

Professor of Properties and Testing of Materials, Department of Structural Engineering, Faculty of Engineering, Ain Shams University, Cairo, Egypt:

- Durability of Concrete course for 4th year Civil, Dept. of Struct. Eng.
- Properties and Testing of Materials course for 2nd year Civil
- Special Testing course for Graduate Students
- Special Concretes course for Graduate Students

1999-2004

Associate Professor, Department of Structural Engineering, Faculty of Engineering, Ain Shams University, Cairo, Egypt:

- Durability of Concrete course for 4th year Civil, Dept. of Struct. Eng.
- Properties and Testing of Materials course for 2nd year Civil
- Technical Report Writing course for 3rd year Civil, Dept. of Struct. Eng.
- Course on Special Testing for Graduate students

2001-2007

Arab Academy for Science and Technology and Maritime Transport, Cairo, Egypt:

- Construction Materials course for civil engineering students (CBM-352)

2002-2003

Akhbar Elyoum Academy for Science and Technology, Cairo, Egypt:

- Civil Materials course for mechanical engineering students (CIV-107)

1998 - 1999

Assistant Professor, Department of Structural Engineering, Faculty of Engineering, Ain Shams University, Cairo, Egypt:

- Properties and Testing of Materials course for 2nd year Civil,
- Properties and Testing of Materials course for Graduate students

1997 - 1998

Post Doctoral Fellow, Department of Civil Engineering, University of Toronto, Toronto, Canada. Duties include sharing the conduction of lectures and supervising student's projects; Course:

- CIV 514F, Concrete Construction

Teaching Experience (Cont'd)

1994 - 1997

Assistant Professor, Department of Structural Engineering, Faculty of Engineering, Ain Shams University, Cairo, Egypt:

- Properties and Testing of Materials course for 1st and 2nd year Civil
- Properties and Testing of Materials course for 1st year Electrical
- Concrete Microstructure of HPC for Graduate students

1990 - 1994

Teaching Assistant, Department of Civil Engineering, University of Toronto, Toronto, Canada. Duties included overseeing and conducting labs and tutorials, setting and marking lab and tutorial assignments and examinations and assisting in preparing teaching materials; Courses:

- JVM 209F, Engineering Materials
- CIV 212S, Solid Mechanics II

1988 - 1990

Associate Lecturer, Department of Structure Engineering, Ain Shams University Faculty of Engineering, Cairo, Egypt. Duties included conducting tutorials and Labs, preparing teaching materials, setting and marking mid term and tutorial examinations; Courses:

- Properties and Testing of Materials course for 1st and 2nd year Civil
- Properties and Testing of Materials course for 1st year Architecture
- Properties and Testing of Materials course for 1st year Electrical
- Properties and Testing of Materials course for 1st year Mechanical

1983 - 1988

Demonstrator, Department of Structure Engineering, Ain Shams University Faculty of Engineering, Cairo, Egypt. Duties included conducting tutorials and labs, setting and marking tutorial and lab examinations and assisting in preparing teaching materials; Courses:

- Properties and Testing of Materials course for 1st and 2nd year Civil
- Properties and Testing of Materials course for 1st year Architecture
- Properties and Testing of Materials course for 1st year Electrical
- Properties and Testing of Materials course for 1st year Mechanical

B- Training Courses, Seminars and Workshops

2010

Seminar on “Modern Techniques to Test Concrete”, Organized by eFORS UAEU for Dubai Municipality, 10 June 2010.

2008

Work shop on “Maintenance, Repair and Strengthening of Concrete Structures”, Organized by the Civil & Environmental Engineering Student Society (Male Section), Civil & Environmental Engineering Department, UAEU, Al Ain, 5-7 May 2008.

2007

Work shop on “Maintenance, Repair and Strengthening of Concrete Structures”, Organized by the Civil & Environmental Engineering Student Society (Female section), Civil & Environmental Engineering Department, UAEU, Al Ain, 18-20 Nov. 2007.

2004

Training course for engineers “Concrete Technology”, organized by National Consulting Bureau NCB, Cairo, 20-24 March 2004.

Teaching Experience (Cont'd)

2003

Training course for engineers “Bill of Quantities and Specifications for Concrete Structures”, organized by National Consulting Bureau NCB, Kuwait, 18-22 Oct. 2003.

2002 - 2003

Training course for engineers co-joint with Prof. Ahmed Sherif Essawy on “Advanced Materials for Construction & Repair of Concrete Structures”, organized by PROJACS, Dubai, 5-9 Oct. 2002, and 7-11 June 2003. Lecture topics included:

- High Strength Concrete
- High Performance Concrete
- Latex-Modified Concrete

2002

Training course for engineers “Quality Control for Construction Materials”, organized by National Consulting Bureau NCB, Cairo, 14-18 Dec. 2002.

2001

Lectures on specials topics for engineers at the Ministry of Public Works and Water Resources – Irrigation Improvement Project Site Supervision of Construction (CON-3), organized by Mott MacDonald, 11–12 Sept. 2001. Lecture topics include:

- Concrete Materials Testing and Specifications
- Quality Control and Total Quality Management
- Concrete Mix Design and Pre-Cast Concrete Units

1999 - 2001

Lectures on specials topics for engineers at the National Authority for Roads and Bridges - Department of Training Center. Lecture topics include:

- Materials and Construction of Roads
- Laboratory Testing
- Deterioration Causes of Reinforced Concrete Bridges
- Evaluation and Repair of Reinforced Concrete Bridges
- Concrete Mix Design

1999 - Present

Lectures on special topics for newly graduated engineers at the National Authority for School Buildings - Training Center. Lecture topics include:

- Laboratory Testing and Laboratory Training
- Evaluation and Repair of Reinforced Concrete Buildings
- Non Destructive Testing

C- Supervised Graduation Projects and B.Sc. Theses

2014-2015

B.Sc. Graduation Project, Civil & Environmental Engineering Department, UAEU:

- “*Mixture Design and Evaluation of Self-Compacting Concrete (SCC)*”, by Dheyazan Noman, Mohamed A. Al Ameri & Salem M. Abdulla

2011-2012

B.Sc. Graduation Project, Civil & Environmental Engineering Department, UAEU co-supervised with Dr. Amr Sweedan:

- “*Use of Concrete-Filled Steel-Tubes as Column Elements in Multistory Buildings*”, by Dima M. Kanaan, Rawia Y. Thani & Shamma S. AL Aryani

Teaching Experience (Cont'd)

2010-2011

B.Sc. Graduation Projects, Civil & Environmental Engineering Department, UAEU co-supervised with Dr. Amr Sweedan:

- *"Behavior of Composite Flexural Elements"*, by Vasilia Al Khaldi, Muna Al Azizi & Afra Al Dhahrei.
- *"Comparison of Concrete Mixture Design Methods using available Material in UAE"*, by Ahmad Almansori, Saleh M. J. Juha, Mahmoud S. AlHamlawi & Abdelrahman A. Alsallamin.

2009-2010

B.Sc. Graduation Project, Civil & Environmental Engineering Department, UAEU:

- *"Concrete Mixture Design Incorporating Supplementary Cementing Materials (SCM)"*, by Fhad Al Shehi, Talal Al Shehi, Khaled Al Hammadi & Saeed Al Ajmi.

2008-2009

B.Sc. Graduation Projects, Civil & Environmental Engineering Department, UAEU:

- *"Reliability of Non-Destructive tests for Evaluating Concrete Quality"*, by Ahmed Al Samri, Nader Al Zarouni, Al Hassan Mohamad & Yaser Al Nuaimi.
- *"Mixture Design and Evaluation of Self-Compacting Concrete (SCC)"*, by Ibrahim K. Al Shamsi, Abdulla O. AL Kaabi, Saleh A. Al Aryani & Hamdan Al Saadi

2007 - 2008

B.Sc. Graduation Project, Civil & Environmental Engineering Department, UAEU:

- *"Design of High Performance Concrete Mixtures (HPC) in Aggressive Environments"*, by S. Al Haddadi, S. Al-Ameri, N. Al Shamsi, M. Al Shebli, & M. Mazrooei.

2004 - 2005

B.Sc. thesis co-supervised with the concrete material staff at Ain Shams University Faculty of Engineering, Department of Structural Engineering, Egypt:

- *"Lightweight Self-Compacting Concrete"*, by Hatem A. Wahab, and Reham A.M. Elaskary.

2003 - 2004

B.Sc. thesis co-supervised with the concrete material staff at Ain Shams University Faculty of Engineering, Department of Structural Engineering, Egypt:

- *"Effect of using Lime Stone Powder on Flowability of Self-Compacting Concrete"*, by Marko G. Guirgis, Magi S. Ibrahim, Christine M. Masih, Karmen R. Ghobrial, and Mariam F. Guirgis.

2001 - 2002

B.Sc. theses co-supervised with the concrete material staff at Ain Shams University Faculty of Engineering, Department of Structural Engineering, Egypt:

- *"Fiber-Reinforced Self-Compacting Concrete (FR-SCC)"*, by Abdel Rahman Abdel Latif, Mahmoud A. Ibrahim, Mahmoud Abdel Wahab & Waleed Zaki Ahmed.
- *"Repair and Strengthening of Historical Buildings"*, by Ahmed Abu Bakr M. Salam, Ahmed Said Abdel Samie Darwish, Ahmed M. Shawki Rabie, & El-Sayed Abdo El-Sayed Qursham.
- *"Evaluating In-Situ Concrete Strength Using Combined Non-Destructive Test Methods"*, by Amal Nagi Abd Allah, Eman Mohsen Anwar, Ayman El-Sayed El-Sadek, & Rania Mostafa Mohamed.

Teaching Experience (Cont'd)

- *"Effect of Elevated Temperatures on Polypropylene Fiber Reinforced Concrete"*, by Sara M. O. Ali, Sara Mohey Essa, & Samar N. H. El-Kersh.
- *"Effect of Corrosion Inhibitor Admixtures on the Corrosion of Reinforcing Steel"*, by Noha Mahmoud Hamdy, & Noha Taher Mohamed.
- *"Effect of Steel Epoxy Coatings on the Corrosion of Reinforcing Steel"*, by Nevine Mohamed Adel Aziz, Hala Adel Osman, Heba Abdel Baset El-Sayed, Heba Abdel Aziz El-Shimy, & Hoda Shokry Mokhtar.

2000 - 2001

B.Sc. theses co-supervised with the concrete material staff at Ain Shams University Faculty of Engineering, Department of Structural Engineering, Egypt:

- *"Repair of RC Beams Subjected to Reinforcement Corrosion Using GFRP"*, by Dalia S. Aziz, Dazy Labib, Dina R. Kamel, & Dina A. Sheta.
- *"Quality Control in Concrete Construction"*, by Mohamed Abdel-Aziz Imam, Mohamed Abdel Hady, & Mohamed Galal M. Hasanien.
- *"Repair of Historical Structures"*, by Mohamed Daoud, Sherien Ahmed, Mohamed Soliman Ali, Mohamed Ali Hasan Hegazy, & Reham Hasan.
- *"Repair of RC Structures"*, by Hesham Mohamed Abdel-Moneam, Abdel-Azeem Samir Wahba, & Mohamed Abdel-Moneam Abdel-Galil.
- *"Hybrid Fiber Reinforced Concrete"*, by Tamer Ahmed Shafeek, Beshoy Boushra Awad, Ibrahim Saeed Abdel-Rahman, & Ihab Mohamed Ameen.
- *"Fibrillated and Monofilament Polypropylene Fiber Reinforced Concrete"*, by Sameh E. El-Gharib, Hany Mohamed Ali, Haytham Mohamed Hasan El-Zayat, & Yasser Mohamed Youssef Ezz El-Din.
- *"Insulating Materials in Construction"*, by Rehab Mohamed Ahmed Hafez, Shrouk El-Sayed Hosny, & Sherien Mohamed Moustafa Omar.

1999 - 2000

B.Sc. theses co-supervised with the concrete material staff at Ain Shams University Faculty of Engineering, Department of Structural Engineering, Egypt:

- *"High Performance Concrete"*, by Amal Bilal M. Ahmed, Iman A. Ali Nasr, & Iman Abdel Salam Abu El-Magd.
- *"Insulating Materials"*, by Ahmed M. Samir Mustafa, Ahmed Arafat Al-Tuhamy & Amr El husieny Mohamed.
- *"Ready Mixed Concrete in Egypt"*, by Mohamed Abdel Naby Ghaith & Mohamed Fathy Qeratem.
- *"High Strength Fiber Reinforced Concrete"*, by Maha M. Ibrahim & Ingy Ahmed Awad.
- *"Pre-Cast Concrete Units"*, by Akmal M. Hanna, Lina Nabil & Tamer Sadeq Fahmy.
- *"UPVC Sewage Pipes"*, by Noha N. A. Hashem & Mayada M. Ahmed.
- *"Flooring Systems"*, by Shaimaa Abdel Moutie Ahmed.
- *"Suez Canal Suspension Bridge"*, by Amr A. Ragaie, Amr S. Zakaria and Diaa Abu Bakar.

1998 - 1999

B.Sc. theses co-supervised with the concrete material staff at Ain Shams University Faculty of Engineering, Department of Structural Engineering, Egypt:

- *"Production of High Strength Concrete"*, by Wael Elshafie, Bahy Samir, Mohamed Radwan, & Mohamed El-Senary.
- *"Insulating Materials"*, by Amr Adel, Mohamed Kamel, & Mohamed Hasan Fahmy.
- *"Building Masonry in Egypt"*, by Asmaa Abu El-Makarem, & Ahmed Shanan.
- *"Polymers in Concrete"*, by Ehab K., B. Ibrahim, & Ahmed M. El-Ahmady.

Teaching Experience (Cont'd)

1997 - 1998

B.Sc. thesis co-supervised with Prof. R.D. Hooton at Department of Civil Engineering, University of Toronto, Canada:

- *"Investigation of an Unstable Porous Material Used in the Plaster Die Making Process"*, by Lisa Vleuten

1997 - 1998

Co-supervising CIV 514 Projects with Prof. R.D. Hooton at Department of Civil Engineering, University of Toronto, Canada:

- *"Effect of Cement Content, W/C Ratio and Other Properties on Quality of Cover and Corrosion Resistance"*, by Richard Iacobucci & Lisa Vleuten
- *"Effect of Cover Depth and Quality on Time to Cracking Due to Corrosion"*, by Roger Wong & Martin Ma

1995 - 1996

B.Sc. theses co-supervised with the concrete material staff at Ain Shams University Faculty of Engineering, Department of Structural Engineering, Egypt:

- *"Application of Pre-Stressed Concrete"*, by E. Abdel Gafar, H. Hamdy, H. Mohamed, & H.A. El-Bakry
- *"Testing & Evaluation of Concrete Structures"*, by H.S. Ahmed, A.A. Ali, M.M.A. Abdel Wareth, & A.B. Aiad
- *"Materials & Systems of Concrete Formwork"*, by B.L. Ellias, E.S. Doss, & H.A. Youssef
- *"Concrete Admixtures; Use of Rice Husk as Mineral Admixture"*, by H.M. Sayed, A.S. Kotb, & G.I. El-Sayed
- *"Durability of Concrete"*, by A.A. Abdel Salam, & E.A. Ali
- *"Materials & Systems of Formwork"*, by S.H. Abou El-Seoud, R.L. Armanious, A.Z. El-Sadat, & A.H. Abdel Wahab
- *"Repair & Strengthening of Structures"*, by H.M. Fahmi, & H.A. El-Nagar
- *"Polymer Concrete"*, by E.A. Abdel Salam, H.E.M. Mahmoud, A.F. Bayomy, & E.A. Khalil
- *"Durability of Concrete; Concrete in Marine Environment"*, by B.M. Adel, & R.M.M. Said
- *"Repair & Strengthening of Structures"*, by K.M.A. Mohamed, S.M. Abdel Hady, S.M. Abdel Hamid, & A.M. Abdel Aziz
- *"Pre-cast Concrete"*, by M.T. Ramadan, M.A. Ghany, & K. Abd Allah
- *"Concrete Admixtures; Chemical Admixtures"*, by W.A. El-Bably, N.S. Fouad, & Y.M. El-Leath
- *"Polymers in Concrete"*, by R.S. Youssef, R.S. Bekhiet, & W.A. Ahmed

1994 - 1995

B.Sc. theses co-supervised with the concrete material staff at Ain Shams University Faculty of Engineering, Department of Structural Engineering, Egypt:

- *"Pre-Stressed Concrete"*, by D. Latif, F.A. El-Mesih, & R. Latif
- *"Fibre Reinforced Concrete"*, by H.H. Zeidan, H.M. Zaki, & Y.M. Bakr
- *"Repair of Concrete Structures"*, by F. Al-Dousoky, H.A. El-Azis, H. Farouk, H.A. Hamed, & R. Gab-Allah
- *"Polymers in Concrete"*, by W.S. Gad, W.M. Gamal, & Y.A. El-Megied
- *"Materials and Systems for Concrete Form Works"*, by M.S. El-Din, A.E. El-Din, M.I. Habib, & E.S.A. El-Latif
- *"Materials and Methods of Repair of Historical and Monumental Structures"*, by A.S.A. El-Fattah, A.S.A. El-Metall, M. Fawzy, M.E. Sharraf, & M.A. El-Zaher
- *"Repair and Strengthening of Structures"*, by H.M. Mabrouk, M.A. El-Baki, M.Z. El-Sadat, & G.S.A. El-Ghaffar

Teaching Experience (Cont'd)

- “Non-Destructive Testing on Concrete Structures”, by N.E. Nasr, S.F.A. El-Baky, H.A. Shalaby, & M.A.E. Tawfik
- “Polymers in Concrete”, by S. Hazem, M.A. El-Gozamy, M.A.E. El-Sheikh, M.M. Taha, & N.M. Farag
- “Strengthening of Concrete Structures”, by A.I. El-Gizawy, A.M. Mokhtar, A.M.A. El-Fattah, A.N. Arafa, & M.N. Mohammad
- “Pre-cast Concrete Technology”, by M.A. El-Aziz, M.H. Mohamed, & M.M. Saber
- “A Study on Locally Produced Portland Cement”, by E.S. Ahmed

Research Experience

A- Supervised Ph.D. Dissertations

2004- 2010

“Production of Ultra-High Strength Concrete Using Local Materials and its Application in Axially Loaded Columns”, Ph.D. thesis Enas A. Khattab, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised Prof. S.H. Okba, Prof. H.H. Bhanasawy, Prof. Amr Abdel Rahman, Dr. Hosam El Karmouty), Oct. 2010.

2005- 2010

“Behavior of Ultra-High Strength Concrete Under Axial and Cyclic Lateral Loading”, Ph.D. by Amal A. Bilal, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. S.H. Okba, Prof. H.H. Bhanasawy, Prof. Amr Abdel Rahman, Dr. Hosam El Karmouty), June 2010.

2006- 2010

“Modeling of Corrosion Evaluation and Prediction of Steel Reinforcement in RC Structures by Artificial-Neural-Networks (ANNs)”, Ph.D. by Ibrahim Abdel Latif Yousef Ahmed, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Dr. El-Sayed A. Nasr, Dr. Fatma Shaker, Dr. M.A. Khalaf and Dr. M. Nabil Mostafa), April 2010

2001 - 2006

“Performance and Durability of Slag Cement Concrete in Aggressive Environment”, Ph.D. thesis by Mohamed Ragab Abdel Meguid, Oct. 2006, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. S. H. Okba & Prof. Dr. E. Abdel Raouf Nasr), April 2006.

B- Supervised M.Sc. Theses

2014- Present

“Combining Non-Destructive Test to Improve the Reliability of Evaluating Concrete Quality”, M.Sc. thesis In Progress by Afra A. Al Dhaheri, UAEU, College of Engineering, Civil and Environmental Engineering Department.

2014- 2016

“Using Ceramic Waste Powder in Producing Self-Compacting Concrete”, M.Sc. thesis by Sama Tarek Aly, UAEU, College of Engineering, Civil and Environmental Engineering Department (Co-supervisor Prof. M. Reda Taha, University of New Mexico, USA), 2016

2013- 2016

“Recycling Ceramic Waste Powder and its Usage as an Alternative Ingredient in Concrete”, M.Sc. thesis by Dima M. Kannan, UAEU, College of Engineering, Civil and Environmental Engineering Department, 2016

Research Experience (Cont'd)

2011- 2016

"Behavior of Expansive-Concrete-Filled Steel Tubular (ECFST) Columns under Axial Loadings", M.Sc. thesis by Abdulaziz Lazkani Abdulwahab, UAEU, College of Engineering, Civil and Environmental Engineering Department (co-supervised with Dr. A. Mwafy), 2016.

2011- 2015

"Shear Behavior of Steel-Fiber Reinforced Ultra-High-Strength Self-Compacted Concrete Beams", M.Sc. thesis by Omar Jum'ah Zaal Alrawashdeh, UAEU, College of Engineering, Civil and Environmental Engineering Department (co-supervisor Dr. T.A. El Maaddawy), 2015.

2010- 2014

"Flexural Behavior of Reinforced Concrete T-Beams Strengthened with NSM Composite System under Accelerated Corrosion", M.Sc. thesis by Anes Bouchair, UAEU, College of Engineering, Civil and Environmental Engineering Department (co-supervised with Dr. T.A. El Maaddawy & Dr. A. Biddah), 2014.

2009- 2013

"Performance of Reinforced Concrete Beams Strengthened with Mechanically-Fastened Composite System under Corrosive Environment", M.Sc. thesis by Amna Z. Suwaid Al Nassibi, UAEU, College of Engineering, Civil and Environmental Engineering Department (co-supervised with Dr. Tamer El Maaddawy), 2013.

2006- 2011

"Punching Shear Behavior of Lightweight Foamed Concrete Slabs", M.Sc. thesis by Ahmed A. M. Ali, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervisors Prof. Amr Abdel-Rahman & Dr. Amr H. Zaher), 2011.

2005- 2010

"Effect of Temperature Cycles on the Performance of Reinforced Concrete Elements Reinforced by External FRP", M.Sc. thesis by Ahmed B.E. Ghounamy, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervisors Dr. Amr A. Abdel-Rahman, Dr. Abdel-Wahab El-Ghandour), 2010.

2006- 2009

"CFRP Strengthening of Prestressed Hollow-Core Slabs in Positive Moment Region", M.Sc. thesis by Faried M. El-Gabas, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervisors Prof. Amr A. Abdel-Rahman, Dr. Abdel-Wahab El-Ghandour), May 2009

2004- 2007

"Electrically Conductive Concrete and its Use in Structural and Electrical Applications", M.Sc. thesis by Mahmoud Ahmed Al-Gharib, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. El-Sayed A. Nasr & Dr. Mohamed Abdel Aziz Hasan), Dec. 2007

2003- 2006

"Effect of Concrete Surface Treatment on the Corrosion Rate of Steel Reinforcement", M.Sc. thesis by Ahmed Faisal Bedair Oan, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. S. H. Okba & Dr. M. M. Abdel Wahab), June 2006.

Research Experience (Cont'd)

2003- 2005

"Performance of Self-Curing Concrete", M.Sc. thesis by Ahmed Mohamed Salah El-Din, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Dr. Mohamed A. Khalaf), Sept. 2005.

2003- 2005

"Effect of Surface Treatment on the Performance of Lime Stone Building Units", M.Sc. thesis by Amal Bilal Ahmed, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Prof. Dr. Heba H. El-Bahnasawy), June 2005.

2001 - 2006

"Repair of Reinforced Concrete Water Tanks", M.Sc. thesis by Ashraf Nabil El-Husseiny Awad, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Dr. Ali Sherief Abdel Fayad), Nov. 2006.

2001 - 2005

"Performance of Carbon Fibre Laminates Used for Rehabilitation of Reinforced Concrete Elements", M.Sc. thesis by Tarek Hamed Salem Gewaily, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Dr. A.A. Abdel Rahman), Sep. 2005.

2001 - 2004

"Improvement of Cement Blocks for Use in Nuclear Technology", M.Sc. thesis by Yasser Ragaei Zaghloul, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Prof. Mohamed Rashad El-Sourougy), July 2004.

2000 - 2002

"Improving Impact Resistance of Concrete by Using Recycled Scrap Rubber Tires", M.Sc. thesis by Mohamed El-Sayed Abdel Hameed, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Dr. M. M. Abdel Wahab), July 2002.

2000 - 2002

"Analytical Study on Factors Affecting Building Failure and its Effect on the Architectural Environment", M.Sc. thesis by Ahmed El-Sayed M. El-Sokary, Ain Shams University, Faculty of Environmental Studies, Cairo, Egypt (co-supervised with Dr. E. Abdel Raouf Nasr & Dr. Moustafa M.A. Hafeez), Aug. 2002.

1999 - 2004

"High Performance Self Compacting Concrete", M.Sc. thesis by Enass Ahmad Abdel Salam Khattab, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Prof. Heba H. El-Bahnasawy), May 2004.

1999 - 2002

"High Strength Lightweight Concrete Using Air Cooled Blast Furnace Slag", M.Sc. thesis by Nagy Surial, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Prof. El-Sayed Abdel Raouf Nasr), Oct. 2002.

Research Experience (Cont'd)

1999 - 2001

"Improving the Performance of Reinforced Concrete Elements Using Fibre Reinforced Plastics", M.Sc. thesis by Ahmad Rashad Mohamed, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Dr. Hany M. El-Shafie), Dec. 2001.

1996 - 1999

"Latex Modified Concrete", M.Sc. thesis by T.M. Hamouda, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Dr. Fatima A. Shaker), Sep. 1999.

1995 - 1997

"Durability of Glass Fiber Reinforced Cement Mortar (GRC)", M.Sc. thesis by Hussein A.G. Farahat, May 1997 Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Dr. Ali S. Abdel Faiad)

1994 - 1996

"Polymers in Concrete", M.Sc. thesis by Mahmoud M. Reda, Feb. 1996, Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt (co-supervised with Prof. Samir H. Okba & Dr. Fatima A. Shaker), Feb. 1996.

C- Supervised Structural Engineering Diploma Theses

1999 - 2000

Structural Engineering Diploma thesis at Ain Shams University Faculty of Engineering, Department of Structural Engineering, Egypt (co-supervised with Prof. S.H. Okba & Dr. El-Sayed Abdel Raouf Nasr):

- *"Damage and Repair of Reinforced Concrete Structures"*, by Nabil Z. Bayomy, Hanaa E. Mahmoud, Manal T. Mohamed & Abeer M. Fathy.

1995 - 1996

Structural Engineering Diploma theses co-supervised with the concrete material staff at Ain Shams University Faculty of Engineering, Department of Structural Engineering, Cairo, Egypt:

- *"High Performance Concrete; Behaviour, Advantages & Fields of Application"*, by M.M. Ghonemy
- *"Aggregate Quarries in Kafr El-Shiekh and Ismailia"*, by A.M.M. Kasem & Y.M. Moustafa

D- Committees

2014 - Present

Member of the *fib* Task Group 5.14 "Life Cycle Cost (LCC) –Design Life and/or Replacement Cycle"

2006 - Present

Member of the Egyptian Code for Design and Construction of RC Bridges

2004 - Present

Member of the Egyptian Code for Design and Construction of RC Structures, Materials, and Quality Control Committees

2004 - Present

Member of the Egyptian Code Committee for Ready-Mixed Concrete

2004 - Present

Member of the Egyptian Code Committee for Self-Compacting Concrete

Research Experience (Cont'd)

2003 - Present

Member of the Egyptian Code Committee for Fibre Reinforced Composites (FRP) - Materials Section

2002 - 2006

Member of the ACI 548.3R Task Group Team (Polymer-Modified Concrete)

2000 - 2004

Member of the Egyptian Concrete Code, Sub-Committee - Aggregate Testing.

E- Invited Speaker

1. A.S. El-Dieb, "Concrete Sustainability for Infrastructure", Abu Dhabi Municipality, Department of Municipal Affairs and Transport, 12 April 2017, Abu Dhabi, UAE.
2. A.S. El-Dieb, "Design Life Extension of RC Structures", Dubai Municipality, June 2012, Dubai, UAE.
3. A.S. El-Dieb, "Self-Curing Concrete the Next Generation in Construction", the 1st International Conference on Innovative Building Materials, Dec. 28-30, 2014, Cairo, Egypt.
4. A.S. El-Dieb, "Modern Techniques to Test Concrete", Dubai Municipality, June 2010, Dubai, UAE.
5. A.S. El-Dieb, "Self-Curing Concrete Using Water-Soluble Polymers", Civil Engineering Department, University of New Mexico, Albuquerque, USA, March 26th, 2010.

F- Research Projects

On-going Research Projects:

2015-Present

"Ceramic Waste Powder in Concrete – Towards Sustainable Construction Industry", UAEU –UPAR2 (500,000.00 AED for 36 months), as P.I.

Completed Research Projects:

2013-2015

"Mechanical Properties and Durability Performance of Inorganic Polymer (Geopolymer) Concrete using Slag", Individual Research Grant, UAEU (30,000.00 AED), as P.I.

2013-2015

"Preparation and Testing of Modified Sulfur Concrete for use in Sewer Pipelines ", UAE NRF Grant 2011 (280,000.00 AED for 24 months), as Co. PI. and Dr. Khaled El-Sawy as P.I.

2012-2014

"Durability and Structural Behavior of Self-Curing Concrete Using Water-Soluble Polymers", UAE NRF Grant 2011 (450,000.00 AED for 24 months), as P.I. and Dr. T.A. El-Maaddawy as Co PI.

2010-2014

"Shear Behavior of Ultra-High-Strength Steel Fiber Reinforced Self-Compacting Concrete", Individual Research Grant, UAEU (30,000.00 AED), as P.I. and Dr. T.A. El Maaddawy as Co. PI.

2010-2013

"Performance of Near-Surface Mounted (NSM) Rehabilitation System for RC Structures in the Corrosive Environment of UAE", UAE NRF Grant, 2010 (500,000.00 AED for 24 months), as Co. PI. and Dr. T.A. El Maaddawy as Co. PI. and Dr. A. Biddah as P.I.

Research Experience (Cont'd)

2010-2011

"Design Life Extension of RC Structures", Externally Funded Research Grant, Dubai Municipality, 2010 (188,000.00 AED over 5 months period), as P.I. and Dr. Ashraf Biddah, Dr. Tamer El Maaddawy and Dr. Usama Ebead as Co. PIs.

2009-2013

"Performance Evaluation of Mechanically-Fastened FRP System (MF-FRP) for Structural Strengthening Application in the Gulf Environment", Externally Funded Project, Emirates Foundation 2010 (200,000.00 AED for 24 months), as Co. PI. and Dr. T.A. El-Maaddawy as P.I.

2009-2010

"Development of Self-Curing Concrete Using Water-Soluble Polymers", Individual Research Grant, UAEU, 2010 (14,000.00 AED), as P.I. and Dr. T.A. El-Maaddawy as Co. PI.

2009-2010

"Durability of RC Beams Strengthened with Anchored-Unbonded Composite System in UAE Environment", Individual Research Grant, UAEU, 2010 (20,000.00 AED), as Co. PI. and Dr. T.A. El-Maaddawy as P.I.

2008-2010

"Structural Behavior of Self-Compacted-High-Strength-Fiber Reinforced Concrete Beams", Individual Research Grant, UAEU (20,000.00 AED), Completed in May 2010, as P.I. and Dr. T.A. El Maaddawy as Co. PI.

"Rehabilitation of Biaxially Loaded Reinforced Concrete Columns with Advanced Composites", Individual Research Grant, UAEU (30,000.00 AED), Completed in Feb. 2010, as Co. PI. and Dr. Tamer El Maaddawy as P.I.

"Design Guidelines and Long Term Performance of Concrete Structures Strengthened Using FRP", Externally Funded Research Grant by ADCO (979,000.00 AED 48 months), Completed in March 2010, as Co. PI. and Dr. Saud Aldajah as P.I.

2008-2009

"Performance of Ultra-High-Strength-Fiber-Reinforced Concrete (UHS-FRC) in Structural Members", Individual Research Grant, UAEU, Completed in March 2009, as P.I. (18,180.00 AED)

2003-2004

Research program, *"The Use of Composite Materials for the Repair and Strengthening of Concrete Structures at ASAB & JEBEL DHANNA Areas"*, in cooperation with Dr. Adel Hammami, Department of Mechanical Engineering and Dr. Ashraf Biddah, Department of Civil Engineering, United Arab Emirates University, UAE.

2002 - 2006

Collaborative research program, *"Electrically Conductive Concrete"*, in cooperation with Dr. Mohamed H.A. Abdel-Rahman, Properties and Testing of Materials Laboratories, Department of Structure Engineering, Ain Shams University Faculty of Engineering, Cairo, Egypt

Research Experience (Cont'd)

2001 - 2002

Collaborative research program, "*Self-Compacting High-Performance Fibre-Reinforced Concrete (SC-HP-FRC)*", in cooperation with Prof. El-Sayed Abdel Raouf Nasr, Properties and Testing of Materials Laboratories, Department of Structure Engineering, Ain Shams University Faculty of Engineering, Cairo, Egypt

2001 - 2002

Research program, "*Combined Non-Destructive Methods in Evaluating Compressive Strength of Concrete and the Effect of High Temperature*", Properties and Testing of Materials Laboratories, Department of Structure Engineering, Ain Shams University Faculty of Engineering, Cairo, Egypt

2001 - 2004

Coordinated research program, "*Composites in Construction*", in cooperation with Dr. Ezz Yazeed Sayed-Ahmed, Dr. Amr A. Abdel-Rahman, Dr. Abdel-Wahab El-Ghandour, Department of Structure Engineering, Ain Shams University Faculty of Engineering, Cairo, Egypt

2001 - 2002

Research program, "*Self-Curing Concrete*", Properties and Testing of Materials Laboratories, Department of Structure Engineering, Ain Shams University Faculty of Engineering, Cairo, Egypt

2000 - 2002

Collaborative research study, "*Effect of Spiral Hoops on the Bond Strength of Different Concrete Grades with Reinforcement Splices*", in cooperation with Dr. Osama El-Nisr, Department of Structure Engineering, Ain Shams University Faculty of Engineering, Cairo, Egypt

2000 - 2001

Collaborative research study, "*Developing a New Surface Absorption Criteria for Masonry Brick Units & Examining its Correlation to Masonry Bond Strength*", in cooperation with Prof. Nigel G. Shrive, The University of Calgary, & Dr. Mahmoud M. Reda Taha, Stantec Consulting Ltd., Calgary, Canada

1999 - 2000

Collaborative research study, "*Effect of Concrete Quality & Cover Thickness of High Performance Concrete on Reinforcement Corrosion*", in cooperation with Dr. Mahmoud M. Reda Taha, Stantec Consulting Ltd., Calgary, Canada

1997-1998

Post-Doctoral Fellow, Department of Civil Engineering, University of Toronto, "*Chloride Penetration into Concrete*", Supervisors Prof. R.D. Hooton and Prof. M.D.A. Thomas

1990 - 1994

Research assistant, Department of Civil Engineering, University of Toronto, Toronto, Canada. Major research projects:

- "*Effect of Different Curing Conditions on Compressive and Flexural Strength of High Strength Concretes, 85 and 100 MPa*", Supervisor Prof. R.D. Hooton.
- "*Development of a High Pressure Triaxial Cell with Improved Sensitivity for Saturated Water Permeability of High Performance Concrete*", Supervisor Prof. R.D. Hooton.
- "*Development of an Apparatus for the Pressure Pulse Decay Method for Measuring Water Permeability of Concrete Including High Performance Concrete*", Supervisor Prof. R.D. Hooton.

Research Experience (Cont'd)

1983 - 1990

Researcher, Department of Structure Engineering, Ain Shams University Faculty of Engineering, Cairo, Egypt. Major research projects:

- "Production of High Strength Concrete Using Crushed Limestone from Local Quarries", Supervisors Prof. A. Kerim Atta, and Prof. S.H. Okba.
- "Development of Mix Design Method and Charts Using Crushed Limestone from Local Quarries", Supervisors Prof. Abd El-Kerim Atta, and Prof. Samir H. Okba.

Publications**A- Refereed Journals**

1. S.T. Aly, A.S. El-Dieb, M.M. Reda, "Ceramic Waste Powder for Eco-Friendly Self-Compacting Concrete", Under preparation, to be submitted in 2017. (Corresponding Author)
2. S.T. Aly, A.S. El-Dieb, M.M. Reda, "Self-Compacting Concrete Incorporating Recycled Ceramic Waste Powder", Under preparation, to be submitted in 2017. (Corresponding Author)
3. A.S. El-Dieb, D.M. Kanaan, "Ceramic Waste Powder an Alternative Cement Replacement – Characterization and Evaluation", Under review in Journal of Sustainable Materials and Technology, 2017. (Corresponding Author)
4. A. Soliman, A.S. El-Dieb, E.S. Nasr, "Effect of Curing Conditions on the Performance of Self-Curing Concrete", Under review to Materials Structures, 2017.
5. A.S. El-Dieb, T.A. El-Maaddawy, "Self-Curing Concrete: Mechanical, Durability and Microstructural Characteristics", Under review in Cement and Concrete Composites, 2016. (Corresponding Author)
6. A.S. El-Dieb, T.A. El-Maaddawy, "Assessment of Reinforcement Corrosion Protection of Self-Curing Concrete", Accepted in Journal of Concrete Structures and Materials, 2017. (Corresponding Author)
7. A.S. El-Dieb, M.M. Reda Taha D.M. Kanaan, S.T. Aly, "Ceramic Waste Powder from Landfill to Sustainable Concretes", Accepted and available on line in ICE Construction Materials, 2017. (Corresponding Author)
8. A.S. El-Dieb, M.A. El-Ghareeb, M.A. Abdelrahman, E.A. Nasr, "Multifunctional Electrically Conductive Concrete using Different Fillers", Journal of Building Engineering, 2018, Vol. 15, pp.61-69. (Corresponding Author)
9. D.M. Kanaan, Sh.H. Aboubakr, A.S. El-Dieb, M.M. Reda Taha, "High Performance Concrete Incorporating Ceramic Waste Powder as Large Partial Replacement of Portland Cement", Construction and Building Materials, 2017, Vol. 144, pp.35-41. (DOI: 10.1016/j.conbuildmat.2017.03.115)
10. M.M. El Gamal, A.S. El-Dieb, A.M.O. Mohamed, K.M. El Sawy, "Performance of Modified Sulfur Concrete Exposed to Actual Sewerage Environment with Variable Temperature, Humidity and Gases", Journal of Building Engineering, 2017, Vol.11, pp.1-8 (DOI: 10.1016/j.jobbe.2017.03.009). (Corresponding Author)
11. M.M. Reda Taha, A.S. El-Dieb, M.L. Nehdi, "Recycling Tire Rubber in Cement-Based Materials", ACI SP-314 - Eco-Efficient and Sustainable Concrete Incorporating Recycled Post-Consumer and Industrial By-products, 2017.
12. A.S. El-Dieb, "Performance of Reinforced Concrete Columns using Ultra-High-Strength Fiber-Reinforced Self-Compacted Concrete (UHS-FR-SCC)", MOJ Civil Engineering, 1(2): 00010, 2016. (DOI:.10.15406/mojce.2016.01.0010)
13. A.S. El-Dieb, "Cementless Concrete for Sustainable Construction", MOJ Civil Engineering, 1(2): 00008, 2016. (DOI:.10.15406/mojce.2016.01.00008)

Publications (Cont'd)

14. M.M.E. Gamal, A.S. El-Dieb, K.M. El Sawy, A.M.O. Mohamed, "Application of Modified Sulfur Concrete in the UAE Sewerage Systems", International Journal of Chemical and Environmental Engineering (IJCEE), 2015, Vol.6, No.6, pp.365-368.
15. T.A. El-Maaddawy, A. Bouchair, A.S. El-Dieb, A. Biddah, "Corrosion Aging of Concrete T-Girders Strengthened with Near-Surface-Mounted Composites", ASCE Journal of Composites for Construction, 04014053-1 2015.
16. A.M.O. Mohamed, A.S. El-Dieb, K.M. El Sawy, M.M. El Gamal, "Durability of Modified Sulphur Concrete in Sewerage Environment", Environmental Geotechnics (ICE), 13.00026, 2015.
17. A.A. Zaher, A.A. Abdelrahman, A.S. El-Dieb, A.A. Mohamed, "Punching Shear Behavior of Lightweight Foamed RC Slabs", International Journal of Application or Innovation in Engineering and Management (IJAIEEM), July 2015, Vol. 3, Issue 7, pp.67-74.
18. T.A. El-Maaddawy, A. Nessabi, A.S. El-Dieb, "Performance of Reinforced Concrete Beams Strengthened with Powder-Actuated Fastened Composites under Corrosive Environment", ASCE Journal of Composites for Construction, 04013004, 2013.
19. A.S. El-Dieb, T.A. El-Maaddawy, A.A.M. Mahmoud, "Water-Soluble Polymers as Self-Curing Agents in Cement Mixes", Advances in Cement Research (ICE), 2012, Vol.24, No.5, pp.291-299 (DOI: 10.1680/adcr.11.00030). (Corresponding Author)
20. S.I. Abu-Eishah, A.S. El-Dieb, M.S. Bedir, "Performance of Concrete Mixtures Made with Electric Arc Furnace (EAF) Steel Slag Aggregate Produced in the Gulf Region", Construction and Building Materials, Sept. 2012, Vol. 34, pp.249-256. (Corresponding Author)
21. A.S. El-Dieb, S. Aldajah, A. Biddah, A. Hammami, "Long-Term Performance of RC Members Externally Strengthened by FRP Exposed to Different Environments", Arabian Journal for Science and Engineering (AJSE), 2012, Vol.37, No. 2, pp. 325-339 (DOI: 10.1007/s13369-012-0177-6). (Corresponding Author)
22. A.S. El-Dieb, M.M. Reda Taha, "Flow Characteristics and Acceptance Criteria of Fiber-Reinforced Self-Compacted Concrete (FR-SCC)", Construction and Building Materials, 2012, Vol. 27, No.1, pp.585-596. (Corresponding Author)
23. T.A. El Maaddawy A.S. El-Dieb, "Near-Surface-Mounted Composite System for Repair and Strengthening of Reinforced Concrete Columns Subjected to Axial Load and Biaxial Bending", ASCE Journal of Composites for Construction, Vol.15, No.4, 2011, pp.602-614.
24. A.S. El-Dieb, T.A. El Maaddawy, A.A.M. Mahmoud, "Water-Soluble Polymers as Self-Curing Agent in Silica Fume Portland Cement Mixes", ACI Special Publication SP-278 - Frontiers in the Use of Polymers in Concrete, 2011. (Corresponding Author)
25. S.H. Okba, H.H. Bahnasawy, A.S. El-Dieb, A.A. Abdelrahman, H.Z. El-Karmoty, E.A.A. Khattab, "Mix Proportions and Properties of Ultra-High Strength Concrete Produced using Local Materials", HBRC International Journal, Dec. 2010, Vol.6, No.3, pp.9-19.
26. S.H. Okba, H.H. Bahnasawy, A.S. El-Dieb, A.A. Abdelrahman, H.Z. El-Karmoty, A.M. Belal, "The Behavior of High-Strength Reinforced Concrete Columns under Axial and Cyclic Lateral Loads", HBRC International Journal, August 2010, Vol.6, No.2, pp. 71-79.
27. S. Aldajah, A. Biddah, A.S. El-Dieb, A. Alomari, "Nonlinear Analysis of Polymer Strengthened Concrete Beams", Construction Materials, July 2010, Vol.163, No.4, pp.231-238.
28. A.A.M. Mahmoud, M.S.H. Shehab A.S. El-Dieb, "Concrete Mixtures Incorporating Synthesized Sulfonated Acetophenone-Formaldehyde Resin as Superplasticizer", Cement and Concrete Composites, Vol.32, No.5, 2010, pp. 392-397. (Corresponding Author)

Publications (Cont'd)

29. F. Elgabbas, A.A. El-Ghandour, A.A. Abdelrahman A.S. El-Dieb, "*Different CFRP Strengthening Techniques for Prestressed Hollow Core Concrete Slabs: Experimental study and analytical investigation*", Composite Structures, 2010, Vol.92, No.2, pp. 401-411. (Corresponding Author)
30. E.A. Nasr, A.S. El-Dieb, F.A. Shaker, M.A. Khalaf, M.N. Mostafa, I.A. Yousef, "*Effect of Concrete Cover and External Chloride Concentration on Corrosion Rate of Loaded Reinforced Concrete Beams*", Civil Engineering Research Magazine, Al Azhar University, April 2010, Vol.32, No.2, pp. 445-458.
31. A.S. El-Dieb, "*Mechanical, Durability and Microstructural Characteristics of Ultra-High-Strength Self-Compacting Concrete Incorporating Steel Fibers*", Journal of Materials and Design, 2009, Vol.30, No.10, pp. 4286-4292. Included in Top 25 Hottest Articles during Oct. to Dec. 2009.
32. M. M. Reda Taha, A.S. El-Dieb, M. M. Abdel-Wahab, M.E. Abd El-Hameed, "*Mechanical, Fracture and Microstructural Investigations of Rubber Concrete*", ASCE Journal of Materials in Civil Engineering, 2008, Vol.20, No.10, pp.640-648.
33. A.S. El-Dieb, "*Self-Curing Concrete; Water Retention, Hydration and Moisture Transport*", Construction and Building Materials, 2007, Vol.21, pp.1282-1287.
34. A.W. Sadek, M.M. El-Hawary A.S. El-Deeb, "*Fire Resistance Testing of Concrete Beams Reinforced by GFRP Rebars*", European Journal of Scientific research, Vol.15, No.2, 2006, pp.190-200.
35. A.W. Sadek, M.M. El-Hawary A.S. El-Deeb, "*Fire Resistance Testing of Concrete Slabs Reinforced by GFRP Rebars*", Journal of Applied Fire Science, Vol.15, No.2, 2006, pp.131-145.
36. A.W. Sadek, M.M. El-Hawary A.S. El-Deeb, "*Fire Resistance of Concrete Beams Reinforced by GFRP Rebars*", Journal of Applied Fire Science, Vol.14, No.2, 2005, pp.91-104.
37. A.S. El-Dieb, "*Effect of Fibers on the Flow Characteristics of Self-Compacting Concrete*", Ain Shams Engineering Scientific Bulletin, Vol.39, No.2, June 2004, pp.169-189.
38. A.S. El-Dieb, M.M. Abdel-Wahab, A.M. Fathy Abdel-Aziz, "*Restoring Reinforced Concrete beams Damaged by Reinforcement Corrosion Using FRP Wraps*", Ain Shams Engineering Scientific Bulletin, Vol.37, No.1, March 2002, pp.111-127. (Corresponding Author)
39. A.S. El-Dieb, M.M. Abdel-Wahab, A.M. Fathy Abdel-Aziz, "*Performance of Fibre Reinforced Concrete Using Fibrillated and Monofilament Polypropylene Fibres*", Ain Shams Engineering Scientific Bulletin, Vol.36, No.4, Dec. 2001, pp.209-218. (corresponding author)
40. A.S. El-Dieb, "*Effect of Concrete Quality and Type of FRP Wraps on the Performance of Repaired Reinforced Concrete Beams*", Ain Shams University, Faculty of Engineering Scientific Bulletin, Vol.36, No.4, Dec. 2001, pp.197-207.
41. M.M. Reda Taha, A.S. El-Dieb, N.G. Shrive, "*Sorptivity: A Reliable Measurement for Surface Absorption of Masonry Brick Units*", Materials and Structures Journal, Vol.34, August-Sept., 2001, pp.438-445.
42. A.S. El-Dieb, "*Effect of Sorptivity Test Time on the Variation of Test Results*", Ain Shams University, Faculty of Engineering Scientific Bulletin, Vol.34, No.2, June 1999, pp.41-51.
43. A.S. El-Dieb, "*Chloride Resistance of High Reactive Metakaolin*", Ain Shams University, Faculty of Engineering Scientific Bulletin, Vol.34, No.1, March 1999, pp.27-36.
44. A.S. El-Dieb, "*Corrosion Resistance of Silica Fume Concrete*", Ain Shams University, Faculty of Engineering Scientific Bulletin, Vol.34, No.1, March 1999, pp.37-48.

Publications (Cont'd)

45. F.A. Shaker, A.S. El-Dieb, M.M. Reda, "Durability of Styrene-Butadiene Latex Modified Concrete", Cement and Concrete Research, Vol.27, No.5, May 1997, pp.711-720. (Corresponding Author)
46. S.H. Okba, A.S. El-Dieb, M.M. Reda, "Evaluation of the Corrosion Resistance of Latex Modified Concrete (LMC)", Cement and Concrete Research, Vol.27, No.6, June 1997, pp.861-868. (Corresponding Author)
47. A.S. El-Dieb, R.D. Hooton, "Water Permeability Measurement of High Performance Concrete Using a High Pressure Triaxial Cell", Cement and Concrete Research, Vol.25, No.6, 1995, pp. 1199-1208. (Corresponding Author)
48. A.S. El-Dieb, and R.D. Hooton, "A High Pressure Triaxial Cell with Improved Sensitivity for Saturated Water Permeability of High Performance Concrete", Cement and Concrete Research, Vol.24, No.5, 1994, pp. 854-862. (Corresponding Author)
49. A.S. El-Dieb, R.D. Hooton, "Evaluation of the Katz-Thompson Model for Estimating the Water Permeability of Cement-Based Materials from Mercury Intrusion Porosimetry Data", Cement and Concrete Research, Vol.24, No.3, 1994, pp. 443-455. (Corresponding Author)
50. S.H. Okba, A.S. El-Dieb, "High Strength Concrete by Using Crushed Limestone from Attaqa Quarry", Ain Shams University Faculty of Engineering Scientific Bulletin, No.20, Vol.1, 1987, pp. 228-250.

B- Conferences and Symposiums

1. S.T. Aly, D.M. Kanaan, A.S. El-Dieb, S. Abu-Eishah, "Properties of Ceramic Waste Powder Based Geopolymer Concrete", the 16th International Congress on Polymers in Concrete 2018 (ICPIC 2018); Polymers for Resilient and Sustainable Concrete Infrastructure, Washington DC, USA, 29 April – 1 May 2018. (Corresponding Author)
2. S.T. Aly, D.M. Kanaan, A.S. El-Dieb, M.M. Reda Taha, S. Abu-Eishah, "Ceramic Waste Powder, an Alternative Ingredient for a Greener Concrete", the 9th International Conference in Structural Engineering and Construction (ISEC-9); Resilient Structures and Sustainable Construction, Valencia, Spain, 24-29 July 2017. (Corresponding Author)
3. A. Mwafy, A.S. El-Dieb, A. Lazkani, "Behavior of Expansive Concrete-Filled Steel Tubular Columns under Axial Loadings", the 9th International Conference in Structural Engineering and Construction (ISEC-9); Resilient Structures and Sustainable Construction, Valencia, Spain, 24-29 July 2017.
4. M.M. El-Gamal, A.S. El-Dieb, K.M. El-Sawy, A.M.I. Sweedan, A.M.O. Mohamed, "Production of Durable and Cost Effective Sewer Pipes using Petroleum and Industrial Waste By-Products", International Conference on Advances in Sustainable Construction Materials and Civil Engineering Systems (ASCMCES-17), Sharjah, UAE, 18-20 Apr. 2017. (DOI: 10.1051/mateconf/201712003013)
5. S.T. Aly, A.S. El-Dieb, M.M. Reda Taha, "Eco-Self-Compacting Concrete with Improved fresh and Durability Characteristics", the 11th High-Performance Concrete Conference and the 2nd Concrete Innovation Conference, Tromsø, Norway, 6-8 Mar. 2017. (Corresponding Author)
6. D.M. Kanaan, A.S. El-Dieb, "Ceramic Waste Powder from Landfill to High-Performance Concrete", the 11th High-Performance Concrete Conference and the 2nd Concrete Innovation Conference, Tromsø, Norway, 6-8 Mar. 2017. (Corresponding Author)
7. S.T. Aly, A.S. El-Dieb, M.M. Reda Taha, "Properties of High-Performance Self-Compacting Concrete with Recycled Ceramic Waste Powder", in the ACI-KC 4th International Conference and Exhibition; Smart, Green and Durable Structures, Kuwait, 8-10 Nov. 2016. (Corresponding Author)

Publications (Cont'd)

8. D.M. Kanaan, A.S. El-Dieb, "Efficiency of Using CWP as Partial Replacement of Cement in Concrete-Judged by Measured Properties", in the ACI-KC 4th International Conference and Exhibition; Smart, Green and Durable Structures, Kuwait, 8-10 Nov. 2016. (Corresponding Author)
9. S.T. Aly, A.S. El-Dieb, S. Aboubakr, M.M. Reda Taha, "Utilization of Ceramic Waste Powder in Self-Compacting Concrete", The 4th International Conference on Sustainable Construction Materials and Technologies (SCMT4), Las Vegas, Nevada, USA, 7-11 Aug. 2016. (Corresponding Author)
10. D.M. Kanaan, A.S. El-Dieb, "Ceramic Waste Powder as an Ingredient to Sustainable Concrete", in the 4th International Conference on Sustainable Construction Materials and Technologies (SCMT4), Las Vegas, Nevada, USA, 7-11 Aug. 2016. (Corresponding Author)
11. S.T. Aly, A.S. El-Dieb, M.M. Reda Taha, "Self-Compacting Concrete Incorporating Ceramic Waste Powder", UAE University Annual Research and Innovation Conference (UAEU-ARIC), Al Ain, UAE, 24-25 Nov. 2015.
12. M.M. El Gamal, A.S. El-Dieb, K.M. El Sawy, A.M.O. Mohamed, "Application of Modified Sulfur Concrete in the UAE Sewerage Systems", The 4th International Conference on Chemical and Biological Processes (ICCBP-2015), Dubai, UAE, 22-24 Nov. 2015. (Corresponding Author)
13. A.S. El-Dieb, D. M. Kanaan, "Ceramic Waste Powder as Supplementary Cementing Material in Concrete Mixtures", Implementing Innovative Ideas in Structural Engineering and Project Management, The Eighth International Structural Engineering and Construction Conference, Sydney, Australia, Nov. 23-28, 2015, 769-774, doi: 10.14455/ISEC.res.2015.74 (Corresponding Author)
14. A. Mwafy, A.S. El-Dieb, A. Lazkani, "Experimental Assessment of Concentrically Loaded Pre-stressing Concrete-Filled Steel Tubular Columns", Implementing Innovative Ideas in Structural Engineering and Project Management, The Eighth International Structural Engineering and Construction Conference, Sydney, Australia, Nov. 23-28, 2015, 93-98, doi: 10.14455/ISEC.res.2015.165
15. A.S. El-Dieb, T.A. El-Maaddawy, A. Al Sallamin, "Reinforcement Corrosion and Durability Indices of Self-Curing Concrete", Fifth International Conference on Construction Materials: Performance Innovations and Structural Implications (CONMAT'15), Whistler, Canada, Aug. 19-21, 2015. (Corresponding Author)
16. K. El-Sawy, M. El-Gamal, A.S. El-Dieb, A.O. Mohamed, "Optimization of New Modified Sulfur Concrete (MSC) for Sewer Application", Fifth International Conference on Construction Materials: Performance Innovations and Structural Implications (CONMAT'15), Whistler, Canada, Aug. 19-21, 2015. (Corresponding Author)
17. D. M. Kanaan, A.S. El-Dieb, "Replacement of Portland Cement by Ceramic Waste Powder (CWP)", UAE Graduate Student Research Conference (UAEGSRC2015), Abu Dhabi, UAE, Mar. 22-24, 2015. (Corresponding Author) Awarded Best Paper in Civil Engineering.
18. A.M. Belal, H.Z. El-Karmoty, A.A. Abdelrahman, A.S. El-Dieb, H. Bahnasawy, S.H. Okba, "Theoretical and Experimental Study of High-Strength Reinforced Concrete Columns Under Axial and Cyclic Lateral Loads", 1st International Conference on Innovative Building Materials (IBMC14), Cairo, Egypt, Dec. 28-30, 2014, IBMC-110.
19. E.A.A. Khattab, H.Z. El-Karmoty, A.A. Abdelrahman, A.S. El-Dieb, H. Bahnasawy, S.H. Okba, "Theoretical and Experimental Study of Ultra-High-Strength Reinforced Concrete Columns Under Axial Loads", 1st International Conference on Innovative Building Materials (IBMC14), Cairo, Egypt, Dec. 28-30, 2014, IBMC-112.
20. A.S. El-Dieb, I.E. Shehab, "Cementless Concrete Using Ceramic Waste Powder", International Conference on Construction Materials and Structures (ICCMATS), Johannesburg, South Africa, Nov. 24-26, 2014, 487-494. (Corresponding Author)

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21. A.S. El-Dieb, T.A. El-Maaddawy, A. Al Sallamin, “*Microstructure and Durability Characteristics of Self-Curing Concrete*”, International Conference on Construction Materials and Structures (ICCMATS), Johannesburg, South Africa, Nov. 24-26, 2014, 276-283. (Corresponding Author)
22. A.S. El-Dieb, T.A. El-Maaddawy, O. Al-Rawashdah, “*Shear Behavior Ultra-High-Strength Steel-Fiber-Reinforced Self-Compacting Concrete Beams*”, International Conference on Construction Materials and Structures (ICCMATS), Johannesburg, South Africa, Nov. 24-26, 2014, 972-979. (Corresponding Author)
23. A.S. E-Dieb, T.A. El-Maaddawy, A. Al Sallamin, A.A. Mahmoud, “*Self-Cured Concrete: Performance Assessment and Material Characterization*”, Concrete Innovation Conference CIC 2014, Oslo, Norway, June 11-13, 2014 (Corresponding Author)
24. A.S. El-Dieb, S.I. Abu-Eishah, M.S. Bedir, “*Production of Concrete Using Electric-Arc Furnace Slag (EAFS) as Aggregate*”, Concrete Innovation Conference CIC 2014, Oslo, Norway, June 11-13, 2014. (Corresponding Author)
25. T.A. El-Maaddawy, A. Bouchair, A. Biddah, A.S. El-Dieb, “*Residual Strength of Aging Concrete T-Girders Strengthened with Near-Surface-Mounted Composite System*”, Proceedings of the International Conference on Ageing of Materials & Structures (AMS'14), Delft 26 – 28 May 2014, The Netherlands, Paper No. 191205.
26. A.S. El-Dieb, T. El-Maaddawy, A. Al Sallamin, A.A. Mahmoud, “*Self-Curing Concrete as New Construction Material*”, The 1st International Conference on Infrastructure Management, Assessment and Rehabilitation Techniques, ICIMART'14, 4-6 March 2014, AUS, Sharjah, UAE. (Corresponding Author)
27. A.S. El-Dieb, “*Durability characteristics of ultra-high-strength fiber-reinforced self-compacted concrete*”, Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2013)”, Istanbul, Turkey, Sep. 9-11, 2013.
28. A.S. El-Dieb, A.F.B. Oan, M.M. Abdelwahab, S.H. Okba “*Chloride induced corrosion and bond strength in relation to concrete cover and bar diameter*”, Second Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures (SMAR 2013)”, Istanbul, Turkey, Sep. 9-11, 2013. (Corresponding Author)
29. A.S. El-Dieb, A.F.B. Oan, M.M. Abdelwahab, S.H. Okba, “*Influence of Concrete Surface Treatment on Chloride Induced Reinforcement Corrosion Rate*”, Research, Development & Practice in Structural Engineering & Construction, The 1st Australasia & South-East Asia Structural Engineering & Construction Conference (ASEA-SEC-1), Perth, Australia, 28 Nov.-2 Dec. 2012. (Corresponding Author)
30. T.A. El-Maaddawy, A. Nessibi, A.S. El-Dieb, “*Performance of RC Beams Strengthened with Mechanically-Fastened FRP System under Corrosion Environment*”, Research, Development & Practice in Structural Engineering & Construction, The 1st Australasia & South-East Asia Structural Engineering & Construction Conference (ASEA-SEC-1), Perth, Australia, 28 Nov.-2 Dec. 2012.
31. T. El-Maaddawy, A. Bouchair, A. Biddah, A.S. El-Dieb, “*Flexural Behavior of Concrete T-girders Strengthened with NSM Composite System*”, ASPIC 2012, 7th Asian Symposium on Polymers in Concrete (ASPIC 2012), Istanbul, Turkey, 3-5 Oct. 2012.
32. A.S. El-Dieb, “*Diffusion and Resistivity of Ultra-High-Strength Fiber-Reinforced Self-Compacting Concrete (UHS-FR-SCC)*”, International Congress on Durability of Concrete (ICDC 2012), 18-21 June, 2012, Trondheim, Norway.
33. T.A. El-Maaddawy, Amna Nessibi, A.S. El-Dieb, “*Effect of Corrosion Exposure on Flexural Behavior of Concrete Beams Strengthened with MF-FRP System: A Pilot Study*”, ACI-KC 3rd International Conference and Exhibition, Towards the Development of Resilient Sustainable Buildings and Structures, March 26-28, 2012, Kuwait.

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34. T.A. El-Maaddawy, A.S. El-Dieb, T.S. Shaikhoun, "Strengthening of Reinforced Concrete Columns Subjected to Biaxial Eccentric Loading with NSM Composite System", Structural Engineering World Congress 2011 (SEWC-2011), 4-6 April 2011, Italy.
35. A.S. El-Dieb, E.M. El-Said, "*Behavior of Reinforced Concrete Columns made with Ultra-High-Strength Fiber-Reinforced Self-Compacted Concrete (UHS-FR-SCC)*", Modern Methods and Advances in Structural Engineering and Construction, the Sixth International Structural Engineering Conference (ISEC-6), Editors. S.O. Cheung, S. Yazdani, N. Ghafoori & A. Singh, 21-26 June, 2011, Zurich, Switzerland, pp.1155-1160. Research Publishing Services (RPS). (Corresponding Author)
36. A.S. El-Dieb, M.A. El-Gharib, M.A.H. Abdel-Rahman, E.A. Nasr, "*Using Electrically Conductive Concrete for Grounding Applications*", Modern Methods and Advances in Structural Engineering and Construction, the Sixth International Structural Engineering Conference (ISEC-6), Editors. S.O. Cheung, S. Yazdani, N. Ghafoori & A. Singh, 21-26 June, 2011, Zurich, Switzerland, pp.1303-1308. Research Publishing Services (RPS). (Corresponding Author)
37. A.S. El-Dieb, T.A. El Maaddawy, A.A.M. Mahmoud, "*Effect of Water-Soluble Polymers as Self-Curing Agent on Portland Cement Mixes Incorporating Silica Fume*", ACI Spring 2010 Convention, Chicago, USA, 21-25 March 2010. (Corresponding Author)
38. A.S. El-Dieb, A. Biddah, S. Aldajah, A. Hammami, "*Long-Term Performance of RC Members Externally Strengthened by FRP Exposed to Different Environments*", 11th Arab Structural Engineering Conference (ASEC11), King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia, 25-27 Oct. 2009. (Corresponding Author)
39. A.A. Abdelrahman, A.S. El-Dieb, T.H. Gewaily, and S.H. Okba, "*Bond Behavior of Carbon Fiber Sheets to Cracked Concrete*", The 9th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-9) – Current Challenges and future trends, Sydney, Australia, 13-15 July, 2009. (Corresponding Author)
40. T.H. Gewaily, A.A. Abdelrahman, A.S. El-Dieb, S.H. Okba, "*Bond Characteristics of Carbon Fiber Sheets Used for Strengthening Reinforced Concrete Elements*", The Fifth Middle East Symposium on Structural Composites for Infrastructure Applications, Hurghada, Egypt, 23-25 May, 2008. (The Egyptian Society of Engineers). (Corresponding Author)
41. R.H. Abu-Zeyad, A.S. El-Dieb, N.H. Abdel Mutaal, N.H. Amer, "*Retrofitting Strengthened Two-Way Solid Slabs Provided with Openings*", International Conference on Civil Engineering Design and Construction (Science and Practice), Bulgaria, 14-16 Sept., 2006.
42. S.H. Okba, E. A. Nasr, A.S. El-Dieb, M.R. Abd El-Megeed, "*Effect of Blast-Furnace Slag Replacement Level on Concrete Durability*", ICCAE Conference Organized by Military Technical College, Cairo, Egypt, May 2006.
43. M.M. Reda Taha, M.M. Abdel-Wahab, A.S. El-Dieb, "*Rubber Concrete: A New Addition to Polymer Concrete*", Third International Conference on Construction Materials: Performance, Innovations & Structural Implications (CONMAT 05), Vancouver, Canada, August, 2005. (Corresponding Author)
44. S.H. Okba, E. Abdel Raouf. Nasr, A.S. El-Dieb, N.N. Sorial, "*Performance of Structural Lightweight Concrete Using Air-Cooled Slag and Foam Particles*", The 9th Arab Structural Engineering Conference (9ASCE) Emerging Technologies in Structural Engineering, United Arab Emirates University, Nov. 29th – Dec. 1st, 2003, Abu Dhabi, pp.1157-1164. (Corresponding Author)
45. A.S. El-Dieb, "*Performance of Concrete Containing Self-Curing Agent; I-Water Retention and Hydration*", Proceedings of The International Conference on Performance of Construction Materials in the New Millennium (ICPCM), Organized by Ain Shams University and The University of Calgary, Cairo, Egypt, 18-20 Feb., 2003, Vol. One, pp.103-112.

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47. M.M. Reda Taha, A.S. El-Dieb, M.M. Abdel-Wahab, "Fracture Toughness of Concrete Incorporating Rubber Tire Particles", Proceedings of The International Conference on Performance of Construction Materials in the New Millennium (ICPCM), Organized by Ain Shams University and The University of Calgary, Cairo, Egypt, 18-20 Feb., 2003, Vol. One, pp.129-138. (Corresponding Author)
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49. S.H. Okba, A.S. El-Dieb, H.M. El-Shafie, A. Rashad, "Evaluation of Corrosion Protection for Reinforced Concrete Wrapped by FRP", Proceedings of The International Conference on Performance of Construction Materials in the New Millennium (ICPCM), Organized by Ain Shams University and The University of Calgary, Cairo, Egypt, 18-20 Feb., 2003, Vol. Two, pp.785-794. (Corresponding Author)
50. A.S. El-Dieb, M.M. Abdel-Wahab, A.M. Fathy Abdel-Aziz, "Retrofitting of Corroded Reinforced Concrete Beams Using GFRP Wraps", Proceedings of The Third Middle East Symposium on Structural Composites for Infrastructure Applications (MESC-3), Aswan, Egypt, 17-20 Dec., 2002. (The Egyptian Society of Engineers). (Corresponding Author)
51. M.M. Reda Taha, A.S. El-Dieb, N.G. Shrive, "Sorptivity: A Surface Absorption Criteria for Brick Units: A Proposal for the Canadian Masonry Standards", Proceeding of the 9th Canadian Masonry Symposium, Fredericton, Canada, 4-6 June, 2001.
52. M.M. Reda Taha, A.S. El-Dieb, N.G. Shrive, "The Theory of Sorptivity and its Application to Masonry Brick Units", Proceeding of The Ninth International Colloquium on Structural and Geotechnical Engineering (9th ICSGE), 10-12 April, 2001, Ain Shams University, Cairo, Egypt. (Corresponding Author)
53. A.S. El-Dieb, M.M. Abdel-Wahab, M.E. Abdel-Hameed, "Concrete Using Rubber Tire Particles as Aggregate", International Symposium on Recycling and Reuse of Used Tyres, 19-20 March, 2001, Dundee, Scotland, pp.251-260. (Thomas Telford). (Corresponding Author)
54. S.H. Okba, A.S. El-Dieb, M.M. Abdel-Wahab, M.E. Abdel-Hameed, "Performance of Concrete Using Rubber Tire Particles", International Symposium on Recycling and Reuse of Used Tyres, 19-20 March, 2001, Dundee, Scotland, pp.261-268. (Thomas Telford). (Corresponding Author)
55. A.S. El-Dieb, M.M. Reda Taha, "Corrosion of Reinforcing Steel in Relation to High Performance Concrete Cover Thickness and Quality", International Symposium on High Performance Concrete - Workability, Strength and Durability, 10-15 Dec., 2000, Hong Kong & Shenzhen, China, Vol.1, pp.195-200. (Corresponding Author)
56. A.S. El-Dieb, R.D. Hooton, M.D.A. Thomas, "Assessment of Concrete Resistivity", ASCE Middle East Regional Conference on Quality Control of Engineering Projects and the 2nd International Symposium on Environmental Hydrology, Cairo, May 16-18, 1999, pp.229-238. (Corresponding Author)
57. A.S. El-Dieb, E.A. Nasr and F.A. Shaker, "Effect of Cement Type on the Performance of Styrene-Butadiene Latex Modified Concrete", Proceedings of the Seventh Arab Structural Engineering Conference, Kuwait, Nov. 24-26, 1997, pp.89-98. (Corresponding Author)

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58. A.S. El-Dieb, “*Rapid Chloride Permeability Test as a Measure of the Concrete Durability; A Critical Review*”, The Seventh International Colloquium on Structural and Geotechnical Engineering (7th ICSGE), 17-19 Dec., 1996, Ain Shams University, Cairo, Egypt, Vol.2, pp.377-392.
59. R.D. Hooton, A.S. El-Dieb, “*Evaluation of Water Permeability of High Performance Concrete*”, International Conference on Concrete Under Severe Conditions, Environment and Loading, Ed. K. Sakai, N. Banthia, and O.E. Gjrv, Sapporo, Japan, Vol. One, Aug. 2-4, 1995, pp. 423-432. (Corresponding Author)
60. R.D. Hooton, A.S. El-Dieb, “*Permeability and Permeability Measurements – Are We any Further Ahead?*”, Advances in Cement and Concrete, Proceedings of an Engineering Foundation Conference, July 24-29, 1994, Eds. M.W. Grutzeck & S.L. Sarkar, New England, University of Hampshire, Durhan, USA.
61. A.S. El-Dieb, “*Concrete in Hot Weather; A Review*”, Proceedings of the Fifth International Colloquium on Concrete in Developing Countries, Cairo, Egypt, Jan. 2-6, 1994, Vol.II, pp. 1119-1130.

C- Reference Books (authored, or edited)

1. A.S. El-Dieb, Mahmoud M. Reda Taha, and Shelley L. Lissel, Editors “*Performance of Construction Materials in the New Millennium; A New Era of Building*”, Volume One and Volume Two, Elmaarefa Printing House, 2003, I.S.B.N. 977-273-192 and 193, 1480p.
2. A.S. El-Dieb, Mahmoud M. Reda Taha, and Shelley L. Lissel, Editors “*Performance of Construction Materials in the New Millennium; A New Era of Building*”, Abstracts, Elmaarefa Printing House, 2003, I.S.B.N. 977-273-191, 258p.
3. A.S. El-Dieb, “*Latex-Modified Concrete; Process Technology and Properties*”, Dar El-Hakim press, 2001, I.S.B.N. 977-5248-42-6, 82p.

D- Technical Reports, Thesis and Dissertation

1. A.S. El-Dieb and T.A. El Maaddawy, “*Durability and Structural Behavior of Self-Curing Concrete Using Water-Soluble Polymers*”, UAEU-NRF_20911 (31N100), Sept 2014, 19p.
2. A.S. El-Dieb and T.A. El Maaddawy, “*Shear Behavior of Ultra-High-Strength Steel-Fiber-Reinforced Self-Compacting Concrete*”, UAEU-06_34_07_11/10 (31N072), Aug 2014, 15p.
3. A.S. El-Dieb, A. Biddah, T.A. El Maaddawy and U.A. Ebead, “*Design Life Extension of RC Structures*”, UAEU eFORS, submitted to Dubai Municipality, June 2011, 185p.
4. Saud Aldajah, Ashraf Biddah, Adel Hammami, and A.S. El-Dieb, “*Design Guidelines and Long Term Performance of Concrete Structures Strengthened Using FRP - Fourth Report – Results of Experimental Program (36 Months)*”, UAEU eFORS, submitted to ADCO, March 2010, 60p.
5. Saud Aldajah, Ashraf Biddah, Adel Hammami, and A.S. El-Dieb, “*Design Guidelines and Long Term Performance of Concrete Structures Strengthened Using FRP – Results of Experimental Testing of Beams Buried in Sabkha Soil for 12 Months*”, UAEU eFORS, submitted to ADCO, March 2010, 23p.
6. Saud Aldajah, Ashraf Biddah, Adel Hammami, and A.S. El-Dieb, “*Research Study Using FRP Materials in Strengthening ADCO’s Concrete Structures - Third Report – Results of Experimental Program (18 Months)*”, UAEU eFORS, submitted to ADCO, Sept. 2008, 60p.
7. A. Hammami, A. Biddah, and A.S. El-Dieb, “*The Use of Composite Materials for the Repair and Rehabilitation of Concrete Structures – Measures of Corrosion Control in Concrete Structures*”, UAE University Centre for Externally Funded Projects (eFors), Jan. 2004, 45p.

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8. A. Hammami, A. Biddah, and A.S. El-Dieb, "*The Use of Composite Materials for the Repair and Rehabilitation of Concrete Structures – Evaluation and Monitoring of Corrosion Protection by Externally Applied FRP*", UAE University Centre for Externally Funded Projects (eFors), Jan. 2004, 38p.
9. A. Hammami, A. Biddah, and A.S. El-Dieb, "*The Use of Composite Materials for the Repair and Rehabilitation of Concrete Structures – Repair of Concrete Structures*", UAE University Centre for Externally Funded Projects (eFors), Dec. 2003, 90p.
10. A. Hammami, A. Biddah, and A.S. El-Dieb, "*The Use of Composite Materials for the Repair and Rehabilitation of Concrete Structures – Fiber Reinforced Composite (FRC) Materials for Concrete Structures Rehabilitation*", UAE University Centre for Externally Funded Projects (eFors), June 2003, 98p.
11. A. Hammami, A. Biddah, and A.S. El-Dieb, "*The Use of Composite Materials for the Repair and Rehabilitation of Concrete Structures – Inspection and Assessment Report for Jebel Dhanna, Asab and Shah Areas*", UAE University Centre for Externally Funded Projects (eFors), May 2003, 42p.
12. S.H. Okba, E.A. Nasr, A.S. El-Dieb, M.A. Khalaf, and M.M. Reda, "Chlorides in Concrete - A Critical Review", Academy of Scientific Research and Technology, Egypt, March 1996, 70p.
13. A.S. El-Dieb, "*Permeation of Fluid Through High Performance Concrete*", Ph.D. Thesis, Department of Civil Engineering, University of Toronto, Toronto, Canada, July, 1994.
14. A.S. El-Dieb, "*High Strength Concrete by Using Crushed Limestone from Local Quarries*", M.Sc. Thesis, Department of Structural Engineering, Faculty of Engineering, Ain Shams University, Jan., 1998.

Professional Experience

2007-Present Consultation services through UAE University:

- Consultation service: Chairing a technical committee composed of faculty members from CEED (Dr. Aman Mwafy) to evaluate cracks/cold joints in concrete raft and retaining wall of the project ADNOC New Medical Center, Abu Dhabi, Project No. 7011.
- Consultation service: Chairing a technical committee composed of faculty members from CEED (Dr. T.A. El Maaddawy and Dr. B. El Ariss) to investigate water leakage in 3rd basement of Ritz Carlton Hotel – DIFC, Dubai.
- Consultation service: Chairing a technical committee composed of faculty members from CEED (Dr. Tamer El Maaddawy) to evaluate the cause of fence collapse of the Dubai National School in Barsha, Dubai.
- Consultation service: member of a technical committee composed of faculty members from CEED (Dr. Ashraf Biddah, Dr. Amr Sweedan, Dr. Tamer El Maaddawy and Dr. Aman Mwafy) to evaluate the cause of the collapse of the Panorama Building in Al Hair, Dubai.
- Consultation service: to evaluate the cause of painting fall from a high-rise building in Umm Al Quwain.

2005-2007 Consultant of Quality Control, the National Authority for School Buildings, Quality Control Department

1998 – 2007

- Senior staff member and member of Board of Directories at the Properties and Testing of Materials Research Centre (MRC), Faculty of Engineering, Ain Shams University, Cairo, Egypt.
- Testing & evaluating concrete strength for columns in the Golden Pyramids Plaza (Building A2), Egypt, for Bechtel Buildings & Infrastructure Development.
- Testing & evaluating fire damaged Information Centre, for Civil Aviation Sector at the Ministry of Transportation.
- Quality Control specialist for Talaat Associates Consultants & Engineers, Project of Cairo Regional Control Centre (CRCC), Egyptian Electricity Authority, General Contractor; Siemens - USA.
- Participating in setting the Concrete Technical Specifications of the South Valley Development Project, Sheikh Zayed Canal, Branch 3, for Darwish Consulting Engineers & ARCADIS Euroconsult.
- Quality Control specialist for Ransy Contractor Co., Projects of Shopping Center at 6th of October City & Housing Complex at El-Obour City.
- Quality Control specialist for El-Hasan Contractor Co., Project of Shopping Centre at Maady, Cairo.
- Evaluating reinforced concrete structures at the Housing Complex Phase (2) in Shoiba, Saudi Arabia (Owner; Water Desalination Inc. in Saudi Arabia) for Talaat Associates Consultants & Engineers.
- Testing & evaluating reinforced concrete structures (management building & fire damaged hanger at the GlaxoWelcome Egypt Factory, for Talaat Associates Consultants & Engineers.
- Testing & evaluating reinforced concrete structures at the La-Birilla Resort, Sharm El-Sheikh, Egypt, for El-Ibrahimia Contractors & Owner.
- Testing & evaluating reinforced concrete structures at the El-Gamhood School, Beni Swief, Egypt, for El-Bahr El-Ahmar National Contractor Co.
- Testing & evaluating pedestrian steel bridge (Owner; Americana Co.), for Arab Contractor Co.
- Testing & evaluating reinforced concrete structures at the El-Nahda Housing Complex (2200 units), for El-Nasr Co. for Construction & Housing (EGYCO).
- Testing & evaluating reinforced concrete at the N.A. Tunnel in the Belt Road Cairo, for El-Nasr Co. for Construction & Housing (EGYCO).

Professional Experience (Cont'd)

1994 - 1996

- Staff member at the Properties and Testing of Materials Research Center (MRC), Faculty of Engineering, Ain Shams University, Cairo, Egypt.
- Concrete and materials specialist and consultant for CMC/BESIX; Project of El-Salam Siphon under Suez Canal, Port Said, EGYPT.

1983 - 1990

A Quality Control Engineer, at the Properties and Testing of Materials Laboratory, Department of Structural Engineering, Ain Shams University Faculty of Engineering, Cairo, Egypt. Duties included:

- Testing concrete materials; fine and coarse aggregate, cement, admixtures new additives for concrete and reinforcing bars
- Testing different construction materials; masonry block units, rocks, water & sewage pipes, insulating materials, joint filling materials and epoxy resins
- Testing hardened concrete for compressive, tensile, flexural and bond strengths
- Concrete mix design
- Calibrating testing machines and concrete ready mix plants
- Evaluating damaged structures or structures under construction
- Site visits for sampling of concrete materials and concrete specimens, conducting non-destructive tests and operating full scale structure load tests (concrete & steel bridges and multi-storey buildings)
- Writing reports of test results, conclusions and recommendations

1983 - 1990

Part-time structural designer of concrete structures for several designing and consulting firms.

- Programming in FORTRAN, BASIC and QBASIC
- Extensive familiarity with computer packages employed in graphics (COREL DRAW, COREL PRESENTATION, POWER POINT), spreadsheets (QUATTRO and EXCEL), word processing (WORDPERFECT and MICROSOFT OFFICE) and curve fitting (TABLE CURVE)
- Extensive familiarity with video conference and remote and wireless communication and teaching
- Knowledge of DOS and WINDOWS Systems
- Programming data Acquisition Systems for automated lab experiments

Academic and Scientific Awards

- 2017 UAE University, University Faculty Excellence Award in Service
- 2016 UAE University, College of Engineering Faculty Excellence Award in Service
- 2015 Outstanding Reviewer of the ASCE Journal of Materials in Civil Engineering
- 2013 Outstanding Reviewer of the ASCE Journal of Materials in Civil Engineering
- 2010 Who's Who in Academic Keys for Engineering
- 2009 Marquis Who's Who in the World since 26th Edition
- 2009 Marquis Who's Who in Engineering Higher Education
- 2001 Egyptian Encouragement State Award for Engineering Sciences, from the Academy of Scientific Research and Technology, Cairo, Egypt
- 2000 Ain Shams University Merit Award for Excellent Publication
- 1990 - 1993 University of Toronto Open Fellowship, University of Toronto
- 1990 - 1991 Differential Fee Waiver Scholarship, University of Toronto
- 1978 - 1983 Dean's List, Ain Shams University Faculty of Engineering

Membership of Local, Regional and International Professional Institutions

- Member of the *fib* Commission 8 Task Group TG 8.4 (Life Cycle Cost (LCC)-Design life and/or replacement cycle)
- Member of the Prestressed/Precast Concrete Institute (PCI)
- Professional Engineer and Member of the Egyptian Engineers Syndicate
- Member of the Egyptian Society of Engineers (ESE/Civil)
- Member of the American Concrete Institute (ACI)
- Member of the American Society of Civil Engineers (ASCE)
- Member of the ASCE Construction Institute (CI/ASCE)

Personal

- Date of Birth: July 27 1961
- Nationality: Egyptian
- Married
- Two children