

Dr. Adil K. Al-Tamimi, Ph.D, FABE.

Associate Professor of Civil Engineering, Director of the Institute of Materials Systems "IMS"
College of Engineering, American University of Sharjah, <http://www.aus.edu/engr/cve/people/AdilAl-Tamimi.php>, Director of Regional Society of Materials Research & Education
E-mail: atamimi@aus.edu Phone: +971 6-515 2958, Cell:050-3835380

SUMMARY

Education & Experience: Dr. Al-Tamimi has a Ph.D. in Civil Engineering from University of Strathclyde in Glasgow – Scotland in 1990. He was one of founding member of the Advance Concrete & Masonry Center in UK, Elected member of the Concrete Society – Scotland, 1998-2000 and member of the Concrete Society – UK. At present member of UAE Society of Engineers and Director of the New Mideast Society of Materials & Education. He is co-author of the book **Workability & Rheology of Fresh Concrete**, 2002, RILEM, Paris and Chair of the 1st International Conference on Application of Traditional and High Performance Materials in Harsh Environment, Sharjah, 2004. Co-Chair of the 2nd and 3rd International Conferences on Application of Traditional and High Performance Materials in Harsh Environment, Sharjah, 2006 and 2008.

Coordinator of the First and Second UAE National Forums for the design of Concrete Durability Standards. It has members from four UAE universities, UAE Society of Engineers, Dubai and Sharjah Municipalities, Ministry of Public Works & Housing and several international Industries.

Research Interests: Construction Materials, Environment and Energy, Engineering Quality Control, Materials Management, Process Safety Management, Design of High Performance Concrete, Self-Compacting Concrete, Underwater Concrete, High Strength Concrete, Durability & Service Life of Structures, Corrosion in Structures, Non Destructive Tests and Application of Composites in Structures. He has been working in close relation with the industry in many countries including UAE and engaged in many funded projects with private industries and governmental sections and author of 30 publications in conferences, journals and technical reports.

Consulting:

He worked as a consultant in several industrial projects such as: Safety in building and investigation of the cause of excessive slab deflection in multistory building. Reinforced Concrete Corrosion, High Tensile Tendons, Shotcrete Round Panel Steel Fibers Concrete, Planning Safety System in multipurpose building. Quality Control investigation of the interfacial bond development between old and new surfaces. Evaluation of reinforced concrete structure used as a storage tank for chemical and waste product solution following systematic exposure and testing procedures. Coordinating UAE national forum to develop new standard code for concrete durability. Using Nano Technology for micro hardness technique to analyze different surfaces used in the industry.

Area of Specialization:

1. Construction Materials & Quality Control.
2. High Performance Materials (High Strength and Durability).
3. Engineering Materials Management.
4. Application of Engineering Quality Control in Management.
5. Extending the Service Life of Buildings.
6. Facility Management.
7. Process Safety Management.
8. Logistics and Procurements.
9. Corrosions in Construction.

EDUCATION:

PhD. in Civil Engineering – University of Strathclyde / Glasgow, UK. 1990.

Research in the fields of macro and microstructure of concrete materials, new mixing techniques, quality control criteria, concrete modeling, concrete durability, destructive and non-destructive testing.

MSc. Structural Engineering – University of Strathclyde / Glasgow, UK. 1986.
(1st among 21 Postgraduate).

(All the requirements for MSc.were completed, however I opted to transfer to PhD. to

reduce the total years of study for Ph.D.).

Emphasis on structural engineering design and concrete properties.

BSc., Civil Engineering – University of Technology –Baghadad – Iraq 1977 (the 4th among 121 Graduates).

General civil engineering courses with emphasis on construction materials, concrete and steel structures.

EMPLOYMENTS:

- 2000 - Present Assistant/Associate Professor of Civil Engineering, College of Engineering, American University of Sharjah, United Arab Emirates.
- 1997-2000 Lecturer, Department of Civil, Structural and Environmental Engineering, University of Paisley – Scotland, United Kingdom.
Construction Materials, Concrete Technology, Advanced Concrete Technology, AutoCAD drawing.
Contribution for the work of International RILEM TC145 in producing book on: Workability and Rheology of Special Concrete: Compendium of Tests. Member of the Advanced Concrete & Masonry Center, which is an international center of excellence.
- 1995-1997 Research Fellow,
Department of Civil, Structural & Environmental Engineering, University of Paisley, UK. Teaching assistant and principal investigators in construction materials, concrete technology and composite materials. Consultancy in the field of concrete durability.
- 1991 - 1995 Researcher,
Department of Civil, Structural & Environmental Engineering, University of Paisley, UK. Teaching assistant in construction materials and concrete technology as well as helping in preparing proposals for external funding.
- 1985 - 1990 Post-Graduate Study and Teaching Assistant,
Department of Civil Engineering, University of Strathclyde, UK.
- 1982 - 1985 Site Engineer,
National Oil Company – Basra, Iraq, general civil engineering practices.
- 1977 – 1982 Lecturer,
Department of Civil Engineering, Technical Institute of Basra, Iraq.
General civil engineering courses and administrative.

PUBLICATIONS:

BOOK:

1. “Workability & Rheology of Fresh Concrete: Compendium of Tests”, Published by RILEM, Paris, 2002, ISBN 2-912143-32-2, (**A. Tamimi et al**), “Principle Author”.

Selected Peer REVIEWED JOURNAL PUBLICATIONS:

2. Adil. K. Al-Tamimi, Chapter in Book: Developments in the formulation and reinforcement of concrete, Sidney Mindess, Woodhead Publishing, CRC Press Boca Raton Boston New York Washington, DC. P. 136 – 151, ISBN 978-1-84569-263-6, 2008.
3. Adil Al-Tamimi, Essam Al-Zubaidy, and Fadi Samir Oudah Protection of reinforced concrete corrosion by the application of steel fibers, Journal of Corrosion and Materials, ISSN 1326-1932, Vol. 33 No.6, pp 9-16, December, 2008.
4. Essam Al-Zubaidy, Fadi Samir Oudah, and Adil Al-Tamimi, Analysis of corrosions in structures due to harsh environment, Arab Construction World (ACW) Magazine, Vol. XXVI, Issue 7, pp. 31-34, July 2008.

5. A. K. Al-Tamimi, J. A. Abdalla, Z. I. Sakka, "Assessment of short and long term chloride diffusion of normal and high performance concretes in harsh environment" Published in Elsevier Journal of Construction and Building Materials, Vol. 22, No. 5, 829–836, 2008.
6. A. K. Al-Tamimi and F. Al-Mazrouei, "Management of radio frequency radiation sources in UAE" ASCE Journal of Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management, Vol. 11, No. 3, pp. 184-190, July, 2007.
7. A. K. Al-Tamimi and M. Bardan, "Integration of Quality Control Process and GIS to improve the water network in Sharjah City", the Journal of International Water Association, AQUA, vol. 55, no 6, pp. 401-412, ISSN 1606-9935, May 2006.
8. M. Bardan and A. K. Al-Tamimi, "Applying statistical process control on the water network in Sharjah" Journal of the Arab Water World, Vol. 30 No. 1, January 2006.
9. A. K. Al-Tamimi & M. Sonebi, "Assessment of Self-Compacted Concrete in acidic solutions", in the ASCE, Journal of Materials in Civil Engineering, Vol. 15, No. 4, pp. 354-357, July/August 2003.
10. M. Sonebi, P.J.M. Bartos & A. K. Al-Tamimi, "Performance and cracking behavior of reinforced beams casting with Self-Compacting Concrete", in the ACI – Materials Journal, Vol. 100, Issue:6, pp. 492-500, November, 2003.
11. A. K. Al-Tamimi & M. Sonebi, "Assessment of Self-Compacted Concrete in acidic solutions", in the ASCE, Journal of Materials in Civil Engineering, August 2002.
12. Sonebi, A. K. Al-TAMIMI, & P.J.M. Bartos, "Application of factorial models to predict the effect of anti-washout admixture, superplasticizers and cement on slump, flow time and washout resistance of underwater concrete". In the RILEM Materials and Structures, Vol. 33, No. 229, pp. 317-323, June 2000.
13. A. K. Al-Tamimi, "High performance concrete mix for an optimum protection in acidic conditions". In the RILEM Materials and Structures, Vol. 30, No. 197, pp. 188-191, April 1997.
14. A.K. Al-Tamimi, "The effects of a new mixing technique on the properties of the cement paste-aggregate interface", in Cement and Concrete Research, Vol. 24, No. 7, pp. 1299- 1304, 1994.

REFEREED CONFERENCE PAPERS:

15. Adil. K Al-Tamimi, A, Faridi, T. Choudry and M. Lozon, Characterization & Mechanical Evaluation of Sprayed Concrete, TCN CAE 2008, Intl. Conference on Simulation of Engineering Materials, Italy, Venice, 16-17, October 2008.
16. Adil K. Al-Tamimi, Mufid Al-Samarai, Ali Elian, Nigel Harries,
17. and David Pocock, Guidelines for Concrete Durability Testing in the U.A.E., CANMET/ACI international conference on advances in concrete technology in the Arabian Gulf, Dubai, 18-19, November 2008.
18. Adil K.Al-Tamimi, J. Abdalla, A. Oskouei, M. Sabri-Fard, S.Raheem and H. Badii, Prediction of Flexural and Shear Strength of Post-tension Wide Beams, IMS 3rd Intl. Conf. AUS, January 23-24, 2008.
19. Adil K. Al-Tamimi and Essam Al Zubaidy, "Application of ion transfer process to control corrosion in the reinforced concrete structures" ICMOSPS, 22 - 24 January 2007, Durban, South Africa.
20. Ahmed Al-Sayyed, Adil Al-Tamimi, and Mostafa Saudi, Evaluations of the Precast Concrete System in the Local Market of UAE, SEI 2007 Structures Congress in Long Beach May, 2007 Long Beach, California USA.
21. Adil K. Al-Tamimi, Design and Applications of High Performance Concrete in UAE, The Middle East Construction Conference, April 16- 17, 2007 Abu Dhabi.
22. A. Al-Tamimi, H El-Kadi, T Ibrahim, J. Abdalla, A. Mokhtar and N. Qaddoumi, "Proceedings of the 2nd Intl. IMS Conference: Applications of traditional & high performance concrete in harsh environment, School of Engineering, The American University of Sharjah, March 20-21, 2006, Hard Copy & CD.
23. Adil K. Al-Tamimi and Essam Al-Zubaidy, "The effect of steel bars corrosion on the service life of structures in UAE environment ", accepted at the 10th Arab structural engineering conference, Kuwait, November, 2006.
24. Adil K. Al-Tamimi, "Design of high performance concrete mixture using limestone powder in UAE", International NSF Workshop: Civil engineering infrastructure systems: high performance materials, monitoring & management, AUD, April 30, May 1, 2006.
25. Adil K. Al-Tamimi and Essam Al-Zubaidy, "INHIBITION OF R.C. CORROSION BY THE USE OF STEEL FIBER" in the 2nd Intl. IMS Conference: Applications of traditional & high performance concrete in harsh environment, The American University of Sharjah, March 20-21, 2006.

26. Adil Al-Tamimi, and Z. Al-Shawwa, "PROPERTIES OF POLYMER MODIFIED CERAMIC TILE ADHESIVES", in the 2nd Intl. IMS Conference: Applications of traditional & high performance concrete in harsh environment, The American University of Sharjah, March 20-21, 2006.
27. Adil Al-Tamimi, M. Sonebi, A. Tangnit Hamou, and M. Saric Coric, "DURABILITY INVESTIGATIONS ON SELF-COMPACTING CONCRETE USING SCANNING ELECTRON MICROSCOPE" in the 2nd Intl. IMS Conference: Applications of traditional & high performance concrete in harsh environment, The American University of Sharjah, March 20-21, 2006.
28. Adil Al-Tamimi and Jamal A. Abdalla, "DESIGN OF HIGH-STRENGTH/HIGH-PERFORMANCE CONCRETE USING LOCAL MATERIALS: ACI 211 PROCEDURE" in the 2nd Intl. IMS Conference: Applications of traditional & high performance concrete in harsh environment, The American University of Sharjah, March 20-21, 2006.
29. A. Al-Tamimi, H El-Kadi, T Ibrahim and N. Qaddoumi, "Proceedings of the 5th Intl. Conf. on Composites Sciences & Technology - ICCST/S", 1-3 Feb. 2005, 496 pages Hard Copy & CD.
30. K. Al-Tamimi, "Research Trends of Materials for the Infrastructures in UAE" A keynote Presentation, International Conference on Materials Research and Education, Doha, Qatar, April, 4-6, 2005.
31. M. Badran and A. K. Al-Tamimi, "Quality Control System for the water network in Sharjah, UAE, the case of: Electrical Conductivity and Ph value" the 4th Intl. Water Conference in the Arab Countries", Beirut, Lebanon, 26-30 June, 2005
32. Adil K. Al-Tamimi, Assessment of strength and durability of high performance concrete, IMS 1st International Conference on: Applications of Traditional and High Performance Materials in Harsh Environments, 20-22 January 2004, AUS.
33. A. K. Tamimi, Jamal A. Abdalla, Zafer I. Sakka, Assessment of Factors that affect Durability of Concrete in United Arab Emirates, submitted to 9 ASCET Durability conference in University of UAE – Al-Ain, 2003.
34. A. K. Al- Tamimi, "Quality Control Measurements and Production of SIFCON as High Performance Concrete in UAE", Submitted for the Third International Conference on Information Systems in Engineering and Construction (ISEC 2003), Florida, USA, June 2003.
35. A. K. Al-Tamimi, "Application and Quality Control Measurements of High Performance Materials in UAE", Accepted in ICAMM 2003, 21-23 JANUARY 2003, DURBAN, SOUTH AFRICA.
36. A. K. Al-Tamimi, P. Bartos and M. Sonebi, "Properties of Self Compacting Concrete Based on Different Construction Materials", International Conference on Quality Control and Quality Assurance of Construction Materials, Theme 5 pp. 6.1- 6.14, 29-30 October 2001, Dubai of Commerce and Industry, UAE.
37. A.K. Al- Tamimi, M. Sonebi and P. Bartos, "Properties of An Innovative Construction Materials- AUS Conference in Mathematical Applications", May 2001, Sharjah, UAE. Not Refereed.
38. M. Sonebi, P. Bartos, and A.K. Al-Tamimi , "Flexural Response and Performance of Reinforced Beams Cast with Self-Compacting Concrete, SCC", Proceedings of the 2nd International Symposium on Self-Compacting Concrete, Ed. K. Ozawa & M. Ouchi, Tokyo, Japan, pp. 517-526, October 2001.
39. M. Sonebi., A. Tamimi, and D. Bell, "Analysis of the performance of fresh underwater concrete produced with polysaccharide gum and superplasticizers using plunge and the Orimet tests", Proceedings of 14th International Conference on Building Materials, Ibausil, Vol. 1, Weimar, Germany, pp. 147-156, Sept. 2000.
40. A. Tamimi, "Effects of acids on the durability of concrete", Proceedings of the 5th Intl. Conf. deterioration and repair of reinforced concrete in the Arabian Gulf, pp. 51-60, Bahrain, 27-29, October, 1997.
41. Tamimi, "Investigations of the microstructural improvement of the cement paste – aggregate interface for concrete produced by the two-stage mixing", Proc. of the 18th Intl. Conf. on Cement Microscopy, Houston, USA, 1996.
42. A. Tamimi, "The effects of mixing technique on microsilica concrete", In Production Methods & Workability of Concrete, ISBN 0 419 220704, Edited by PJM. Bartos, D.L. Marrs & D.J. Cleland, pp. 27-33, 1996.
43. H. Al-Najeim & A. Tamimi, "The influence of microsilica on the properties of concrete microstructure", Proc. of the 17th Intl. Conf. on cement microscopy, Calgary, Canada, April, 1995.
44. A. Tamimi & H Al-Najeim, "X-ray diffraction/quantitative XRD mineralogical study and SEM with EDXA investigations of the bond between cement paste and aggregate", Proc. of the 16th Intl. Conf.ICMA, pp. 354-368, Virginia, USA, 1994.
45. A. Tamimi and P. Rigway, "Effects of the two stage mixing on the strength and microhardness of concrete", In Special Concretes Workability and Mixing, ISBN 0 419 188703, Edited by PJM Bartos, pp. 31-37, 1993.

46. P. Bartos and A. Tamimi, "Investigation on Underwater Concrete Admixtures Using Orimet Test". Proceedings of the Intl. Conf. on "Our World in Concrete and Structures", Singapore, pp. 11-18, Aug.1992. (Japan Concrete Institute Gold Award).

REVIEWER:

- 2001- Present Magazine of World of Engineering, UAE Society of Engineers.
2000 Book review: Civil Engineering Materials by Neil Jackson and Ravindra.
1998-2000 Journal: "Construction & Building Materials", Published by Elsevier.
2006 – Present ASCE and ACI Journals.

AWARDS and HONORS:

[Awarded more than 300,000 Dhs in Grants at AUS]

- 2008 Awarded Fully Sponsored Industrial Travel to China with Four Civil Engineering Students.
2008 Recipients of Three Faculty Research Grants - AUS; one as PI and Two as Co-I, 2008.
2008 Congratulations from the Chancellor and Dean of Engineering for organizing successful 3rd Intl. IMS conference.
2008 Elected Director of Mideast Society of Materials & Education, 2008.
2008 BASF Contract on Concrete Corrosion, 2008.
2008 Arabetic Contract on High Tensile Steel Test, 2008.
2007 Shotcrete Round Panel Steel Fibers Concrete according to ASTM C 1550 02, 2007.
2007 Recipient of grant from CONMIX private company 7,000 Dirhams.
2006 Congratulations from the Chancellor and Dean of Engineering for organizing successful 2nd Intl. IMS conference.
2006 Recipient of grant from degussa private company 10,000 Dirhams.
2006 Recipient of grant from the University City Network of 15,000 Dirhams.
2006 Recipient of grant from Crescent Petroleum Company of 40,000 Dirhams
2005 Recipient of research grant from the UAE private industry – Wacker of 7,475 Dirhams
2005 Recipient of research grant 1 from AUS of 15,000 Dirhams
2005 Recipient of research grant 2 from AUS of 25,000 Dirhams
2004 Recipient of research grant from the UAE private industry – Wacker of 15,000 Dirhams)
2003 Recipient of research grant from AUS of 25,000 Dirhams
2002 Recipient of research grant from the UAE private industry – MBT of 25,000 Dirhams for and further 25,000 Dirhams for 2003.
2002 Taking an active role in the signing of MOU between AUS and UAE Society of Engineers.
2002 Recipient of research grant from the UAE private industry- RMC TOPMIX (approx. 30,000 UAE Dirhams).
2002 Recipient of grant of 20,000 UAE Dirhams from Sharjah government, 2002.
2002 Recipient of AUS research award for 2002-2003. (A Tamimi, Jamal Abdalla and Zafar Sakka), UAE 11,250 Dirhams.

2001 Thank memo from Chancellor R. French for organizing successful workshop.
2001 Leading an extensive effort with a group of unique faculty from two Schools in AUS to establish the first Institute of Materials Systems in the region, 2001.
2001 Recipient of AUS Research Award for 2001-2002. (Azm Al-Homoud, J Abdalla and A Tamimi), UAE 22,000 Dirhams.
2000 National Sandreg Challenge Trophy Award for four of my final year students.
1994 Letter of thanks for presenting an excellent paper at ICMA, Virginia, USA.
1992 OWICS INTERNATIONAL CONFERENCE-THE FIRST PRIZE FROM JAPAN CONCRETE INSTITUTE FOR THE OUTSDTANDING AND ORIGINAL PAPER.

Certificate of appreciations from VCAA & Interim Dean of Engineering for organizing successful 2nd Intl. IMS conference, 2006.

Recipient of Descartes Prize from the European Union for demonstrating remarkable work in Self-Compacting Concrete, 2002.

Certificate of Appreciation from Sheikh Hamdan Bin Rashid Al-Maktoom – Minister of Finance & Industry, November 2004.

Certificate of Appreciation from Sheikh Nahyan Ben Zayed – Minister of High Education, 2003.

Sandberg Challenge Trophy Award for four of my final year students, 1999.

ICMA, USA Recognition for presenting excellent paper, 1994

First Prize of the Concrete Canoe Competition in UAE, responsible for the design and application of the materials, 2005.

WORKSHOPS:

1. Organize and coordinate half-day workshop titled “*Construction Industry in UAE*” included three industries from the private sector and chief structural Engineer from Sharjah – Municipality and representatives from the Society of Engineers in UAE AUS, November 2000.
2. Organize and coordinate the second national workshop titled “*High Performance Concrete in UAE*” In collaboration with Society of Engineers in UAE, April 2001.
3. Organize and coordinate the third national workshop titled “*Life Expectancy & Durability of materials in UAE*” In collaboration with Society of Engineers in UAE, November 2001.
4. Present paper at the Earthquake workshop organized with the Ministry of Public Works and Housing, 2002.
5. Present paper at the Concrete Recycling workshop organized by faculty in Civil Engineering Program, 2002.

TECHNICAL REPORTS:

1. Hand book for CVE302: *Laboratory Exercises in Construction Materials and Quality Control*, School of Engineering, CEUSE, January 2001.
2. *Rational production and improved working environment through using Self-Compacting Concrete (SCC)*. Task 4 PROPERTIES OF HARDENED CONCRETE. Final Technical Report (46 Pages) Project funded by the European Community under the ‘IMT/SMT’ Programs. CONTRACT N° : Brite EuRam BRPR-CT96-0366PROJECT N° : Brite EuRam BE96-3801Advanced Concrete Masonry Center, University of Paisley, UK, 1999-2000. (Major European Grant of 3 Million Euros), See attached.
3. *Concrete technology handbook*, University of Paisley, 1994.
4. *Quality control testing of hardened concrete*, Technical Report, University of Paisley, 1993.
5. *Technical Report on underwater concrete admixtures and washout test*, University of Paisley, 1992.
6. *Investigation on concrete microcracking*, Technical Report, University of Strathclyde, 1987.
7. *Analysis of folded plate structures*, Technical Report, University of Technology, 1977.

Professional Services:

1. Director of the Institute of Materials Systems, College of Engineering, AUS.
2. Director of Mideast Society of Materials & Education.
3. Coordinate Materials & Manufacturing Engineering Research Outreach Group – School of Engineering, 2006-2008.
4. Selected as Technical Member by International Industry of Dry Mortar Association, 2007.
5. Chairman of Conference on Construction Materials – Abu Dhabi, March 2007.
6. Use of iLearn blackboard in classes, AUS, Fall 2006.
7. Organizing the 2nd IMS/SOE International Conference on the Applications of Traditional & High Performance Materials in the Harsh Environment, March 2006.
8. Seminar on using micro silica to produce high performance concrete, Dubai, 2005.
9. Chair of the 1st IMS International Conference on Application of Traditional and High Performance Materials, AUS, January, 2004.
10. Kaizen Conference “Operational Excellence through Continuous Improvement”, May 2004.
11. Member of the organizing committee for the: INTERNATIONAL CONFERENCE ON
12. COMPOSITE SCIENCE AND TECHNOLOGY 21-23 JANUARY 2003, DURBAN, SOUTH AFRICA.

13. Organizer for three UAE National Workshops with Local Construction Industry.
14. Maintain close relationship with UAE Society of Engineers and several Local Industry.

Curriculum Development:

1. Develop New MSc. Core Course: ENR 520 – Advanced Construction Materials & Methods, 2007.
2. Member of the Curriculum Committee for the ESM Graduate Program.

Develop the following MSc. Courses:

1. ESM 560 (3-0-3) Quality Engineering and Management
2. ESM 654 (3-0-3) Materials Management
3. ESM 666 (3-0-3) Advanced Construction Materials Management
4. ESM 668 (3-0-3) Engineering Safety & Environment
5. ESM 500 (3-0-3) Statistical Methods for Engineers
6. ESM 664 (3-0-3) Infrastructure System Maintenance & Management

Professional MEMEBERSHIPS:

1. Registered Fellow of the Associations of Building Engineering, FABE, UK
2. Member of the Concrete Society, UK.
3. Member, UAE Society of Engineers.
4. Member, Iraq Society of Engineers.

CONSULTANCY:

1. BASF Contract on Concrete Corrosion, 2008.
2. Arabetic Contract on High Tensile Steel Test, 2008.
3. Shotcrete Round Panel Test according to ASTM C 1550 02, 2007.
4. Quality control of mortar adhesive for ceramic tiles with Wacker Company, 2004-2005.
5. Concrete Chemical Admixtures with MBT – Degussa, 2003-2004.
6. Concrete Durability in UAE with RMC TOPMIX, 2002-2003.
7. Using Nano technology for micro hardness technique to analyze different surfaces used in the industry, 1998.
8. Investigation on the cause of excessive slab deflection on multistory building occupied by Standard Life Assurance Company in Edinburgh, 1997.
9. Interfacial bond development between old and new surfaces using bond pull off test, 1996.
10. Analysis of reinforced concrete structure used as a storage tank for chemical and waste product solution. Systematic exposure and testing procedures, 1996.

TEACHING EXPERIENCES:

- | | |
|---|--|
| 1. Concrete Technology, UK. | 13. CVE 491 Civil Engineering Design Project II. |
| 2. Advanced Construction Materials, UK. | 14. NGN224 Engineering Mechanics: Statics & Dynamics. |
| 3. AUTOCAD, UK. | 15. NGN211 Introduction of Engineering II. |
| 4. Engineering Drawings, UK. | 16. NGN110 Introduction of Engineering I. |
| 5. CVE221 Construction Materials & Quality Control. | 17. NGN111 Engineering Statistics. |
| 6. CVE302 Construction Lab. | 18. ESM 560 Quality Engineering & Management – Master Program. |
| 7. CVE210 Introduction to Civil Engineering. | 19. ESM 654 Materials Management – Master Program. |
| 8. CVE211 Fundamental of Graphics & Computer Programming. | 20. ESM 668 Engineering Safety & Environment – Master Program |
| 9. CVE272 Structural Principles. | 21. CVE220 – Statics. |
| 10. CVE437 Advance Concrete Technology. | |
| 11. CVE201 Civil Engineering Lab. | |
| 12. CVE490 Civil Engineering Design Project I. | |

ESM MSc. Thesis & Project Supervisions:

1. ESM MSc. Engineering Quality (Project).

2. ESM MSc. Facilities Management (Thesis).
3. ESM MSc. Engineering Safety (Project).

PhD. External Examiner for Student from the School of Aerospace, Civil and Mechanical Engineering, University of New South Wales, Australian Defense Force Academy, Australia, 2007.

Co-Supervisor for PhD student from Monash University 2008-2010.