CURRICULUM VITAE – Tarek H. Almusallam

# i) Personal Memoranda

Name: **Tarek H. Almusallam**

Designation: Professor,

Department of Civil Engineering, King Saud University P.O. Box 800, Riyadh 11421, Saudi Arabia

Email: musallam@ksu.edu.sa; musallamt@gmail.com

Date of Birth: 01-07-1382H (28 November 1962G)

Nationality: Saudi (ID: 1001533767)

Fields of Interest: Structural Engineering, Earthquake Engineering, Engineering Materials, Structural Optimization

Indexing databases: ResearcherID: E-7717-2014; ORCID ID: 0000-0001-9614-9990;

Scopus ID: 6603318348; Google Scholar

h-index: 18 (Scopus); 22 (Google Scholar)

i10-index: 41 (Google Scholar)

Citations (Scholar): 1590 (Total); 1006 during last 5 years as on 7 Feb. 2018

Website: http://fac.ksu.edu.sa/musallam/home

# ii) Academic Qualifications

Ph.D. (16 Aug. 1991) Department of Civil Engineering, University of Arizona, Tucson, Arizona, USA Thesis title: Effect of Strain Softening on the Ultimate Strength and Stability of  Steel Flexible   Frames

M.Sc. (15 Aug. 1987) Department of Civil Engineering, University of Colorado, Boulder, Colorado, USA; Thesis title: Finite Element Analysis of Beams with Application to Linear and Non Linear Problems

B.Sc. (1 June 1984) Department of Civil Engineering, King Saud University, Riyadh, Saudi Arabia

# iii) Employment History

**Academic**

27/11/2007 – Present Professor, Civil Engineering Department, King Saud University, Riyadh, Saudi Arabia

8/12/1996 – 27/11/2007 Associate Professor, Civil Engineering Department, King Saud University, Riyadh Saudi Arabia

4/12/1991 – 8/12/1996 Assistant Professor, Civil Engineering Department, King Saud University, Riyadh Saudi Arabia

12/1/1998 – 16/8/1661 Graduate Student at University of Arizona, Tucson, Arizona, U.S.A.

12/1/1986 – 15/8/1987 Graduate Student University of Colorado at Boulder, Colorado, U.S.A.

6/7/1984 – 16/6/1985 Teaching Assistant, Civil Engineering Department, King Saud University, Riyadh, Saudi Arabia

**Administrative**

1/2/1425 H – 1/2/1427 H Director of Research Center, College of Engineering, King Saud University.

1415 H – 1417 H Supervisor of Social Committee of College of Engineering, King Saud University.

# iv) Other Activities

***Membership of Scientific Associations:***

1/6/2005 – Present Member in Saudi Arabian Engineering Committee.

21/2/1994 – Present Member in Saudi Arabian Standard Organization (SASO)

 20/1/1994 – Present American Society of Civil Engineering (ASCE) – Structural Journal

15/7/1997 – Present American Institute of Steel Construction (AISC)

***Committees:***

1989 – Present Member in the American Institute of Steel Construction (AISC).

1992 – Present Member in the American Concrete Institute (ACI) for Construction.

21/2/1994 – Present Member in general and technical committee for construction materials in Saudi Arabia Standard Organization (SASO).

20/4/1994 – 1997 Member in the official technical committee formed by the University to study and evaluate some of damaged buildings at King Saud University Housing.

10/1993 – Present Member in Laboratory Committee in Civil Engineering Department.

1/1994 – 7/1994 Member in the Committee formed to prepare the Ph.D. program for Civil Engineering Department.

2/1993 – 3/1995 Member in the Public Relation Committee in Civil Engineering Department.

4/1992 – 7/1994 Convener and Member in Computer Committee in Civil Engineering Department.

1/1994 – 5/1995 Member in the Committee formed to update all structural courses in Civil Engineering Department.

***Councils:***

1/2/1425 – 1427 H Chairman of Research Center Council, College of Engineering.

11/1991 – Present Member, Civil Engineering Department Council, King Saud University, Riyadh, Saudi Arabia.

11/1991 – Present Member, Structures Group Council, Civil Engineering Department Council, King Saud University, Riyadh, Saudi Arabia.

# v) University and Community Service

* Director in the Specialty Units for Safety and Preservation of Structures, College of Engineering, King Saud University
* Director Technical committee for initial handover of some projects, King Saud University
* Director Structural Engineering Team – Review of the structural design of the Holy Mosque Expansion – Ministry of Higher Education.
* Member Scientific Committee – MMB Research Chair on Rehabilitation of Structures.
* Member Scientific Committee – ARAMCO Research Chair on Earthquake Engineering.
* Member of the Scientific Sub-Committee on Seismic design for the development of Saudi Building Code.
* Consultant at the general administration of projects and maintenance to review King Saud University new and current projects (2003).
* Member in the advisory committee formed to work with The High Authority of the Holy Mosques Affairs.
* Member in the Engineering Committee formed to Review the structural design of King Khalid University, Abha.
* Member of the committee formed by the university to study and approve the final submission of King Saud University Buildings at Qassim region (for two years).
* Member in official technical committee formed by the University to study and evaluate and check the design of new universities submitted for Ministry of Higher Education (2005 – 2006).
* Supervised and execute different projects for ARAMCO and SABIC in different applications.  Also, supervised many funded projects for governmental and private sectors.
* Member in the General Committee of Construction Materials in Saudi Arabian Standard Organization, SASO, (21/2/1994 -1997).
* Member in Official Technical Committee formed by the University to study and evaluate some of damaged buildings at King Saud University Housing, (20/4/1994 -1997, for 3 years).
* Supervisor of the Social Committee of College of Engineering, (1994/1995 and 1995/1996).
* Supervisor and Examiner of several graduation projects in the field of structural engineering. .Lecturing on topics in "Structural Engineering" at Civil Engineering Department.
* Investigator and Co-investigator in different Projects funded by King Abdulaziz City for Sciences and Technology (KACST) and funded by King Saud University and ARAMCO and SABIC companies.
* Member in the Committee to Prepare the Ph.D. Program for Civil Engineering Department on the light of the new academic system.
* Supervisor of many steel and concrete structural projects that were executed for some private and governmental sectors.
* Member in the earthquake technical committee formed under the Saudi Building Code (2004­ till date)
* Refereed many papers submitted to different international journals and conferences.
* Review of the criteria and structural design of the expansion of Makkah Grand Mosque, Saudi Arabia. Also contributed in the modifications of the methods and sequence of construction as well as the modifications in the structural design.

# vi) Funded Research Projects

1. **T.H. Almusallam** (Co-Investigator) "Glass Fiber Reinforced Plastic Bars: Properties and Applications for Concrete Structures," funded by King Abdulaziz City for Science and Technology (KACST).  [Budget   SR 529,000 (US$ 141,000)], 3/1994 - 3/1997.
2. **T.H. Almusallam** (Co-Investigator) "Rehabilitation of the Infrastructure Using Composite Fabrics," funded by King Abdulaziz City for Science and Technology (KACST).  [Budget    SR 1,312,500 (US$ 350,000)], June 1995 – 2003.
3. **T.H. Almusallam** (Co-Investigator), S.H. Alsayed, Y.A. Al-Salloum, “Seismic Upgrade of Beam-Column Connections in Existing RC Buildings Using FRP/Epoxy Composite Laminates”, Research Project funded by King Abdulaziz City for Science and Technology (KACST), 2000.
4. **T.H. Almusallam** (Principal Investigator), Y.A. Al-Salloum, “Long-Term Behavior of Fiber Reinforced Polymer Rebars in Stressed Concrete Elements”, Research Project funded by Research center of College of Engineering, King Saud University, 2000.
5. **T.H. Almusallam** (Co-Investigator), Y.A. Al-Salloum, “Creep Behavior of Concrete Beams Reinforced With GFRP Bars under Sustained Loading at Different Environmental Conditions”, Project funded by Research center of College of Engineering, King Saud University, 2001.
6. **T.H. Almusallam** (Principal Investigator), S.H. Alsayed, Y.A. Al-Salloum, “Seismic Strengthening of Frames with Infill Walls Using Composite Sheets”, Research Project funded by Prince Abdullah Research Center, 2001.
7. **T.H. Almusallam** (Co-Investigator) "Durability of glass and carbon fiber reinforced composites used in rehabilitations of infrastructures under severe environments", Funded by ARAMCO Company.  Budget SR 1,600,000.
8. **Tarek H. Almusallam**, "Behavior of Concrete Cylinders Confined with Glass Fiber Reinforced Polymer (GFRP) Sheets", Research Report # 36/427, Research Center, College of Engineering, King Saud University, 2006.
9. **Tarek H. Almusallam**, "Strengthening of RC Beams Using Honey Comb Plates Reinforced by Glass or Carbon FRP Polymers", Research Report # 34/426, Research Center, College of Engineering, King Saud University, 2006.
10. **Tarek H. Almusallam**, "Flexural Behavior of RC Slabs Strengthened with FRP Polymers", Research Report # 31/425, Research Center, College of Engineering, King Saud University, 2005.
11. **Tarek H. Almusallam**, "Upgrading of RC Beams Using Near-Surface Mounted Steel or GFRP Bars", Research Report # 1/425, Research Center, College of Engineering, King Saud University, 2005.
12. **Tarek H. Almusallam**, "Bond Strength Evaluation For Different Bonding Agents Used With Concrete Repair Systems", Research Report # 37/423, Research Center, College of Engineering, King Saud University, 2003.
13. **Tarek H. Almusallam**, "Laboratory Investigation of Selected Properties of Concrete Repair Materials", Research Report # 7/423, Research Center, College of Engineering, King Saud University, 2003.
14. **Tarek H. Almusallam** (Co-Investigator), Saleh H. Alsayed "Evaluation of Concrete/FRP Sheet Bond under Different Environmental Conditions", Research Report # 28/422, Research Center, College of Engineering, King Saud University, 2002.
15. **Tarek H. Almusallam** (Co-Investigator), Dr. F.S. Al-Mubaddel, "High Temperature Testing Polymer Composite Bars for Use in Structure Reinforcements, Research Report # 5/422, Research Center, College of Engineering, King Saud University, 2002.
16. "Experimental and Analytical Investigation of Compressive Strength of FRP-Confined Concrete”, Research Project No. 11/426," funded by Research center - College of Engineering, KSU. Completed in 2007.
17. "Seismic Upgrade of Beam-Column Connections in Existing RC Buildings Using FRP/Epoxy Composite Laminates," Project No. AR-21-40, funded by King Abdulaziz City for Science and Technology (KACST). Completed in 2007.
18. "Classification and Testing Performance of Concrete Repair Materials for Durable Repair Under Local Environmental Conditions," Project No. AR-100, Deanship of Scientific Research, Applied National Research Program, KSU. Completed in 2007.
19. "Long Term Durability of Composite Materials Used to Externally Strengthen/ Repair Infrastructure Under Different Loading and Environmental Conditions" Funded by ARAMCO, Saudi Arabia, Completed in 2008.
20. “Performance of glass fiber reinforced polymer (GFRP) bars under severe environmental conditions and high temperatures,” Sponsored by Center of Excellence for Research in Engineering Material (CEREM), King Saud University, Completed in 2011.
21. “Performance of glass fiber reinforced polymer (GFRP) bars under Flexural stresses,” Sponsored by Center of Excellence for Research in Engineering Material (CEREM), King Saud University, Completed in 2011.
22. “Development of an advanced risk and vulnerability assessment methodology and framework for buildings in Riyadh against blast generated waves,” Sponsored under twinning program of King Saud University, Completed in 2012.
23. “Strengthening Reinforced Concrete Using CFRP and Wire Mesh for Improved Impact Resistance”, Funded by National Plan for Sciences and Technology, King Abdulaziz City for Science and Technology (Project No.: ADV728-02), Jan 2011 to Dec 2012. Completed.
24. Deanship of Scientific Research group project No. RGP-VPP-104, Completed in 2012.
25. Deanship of Scientific Research group project No. RGP-VPP-310, Completed in 2014.
26. “Effectiveness of hybrid-fibers in improving the impact response of high-strength concrete beams and slabs”, Funded by National Plan for Sciences and Technology, King Abdulaziz City for Science and Technology (Project No. : 12-ADV2619-02), Ongoing.
27. “Vulnerability Assessment and Mitigation Strategies against Terrorist Blast Attacks on Existing Precast Buildings in Saudi Arabia”, Funded by National Plan for Sciences and Technology, King Abdulaziz City for Science and Technology (Project No. : 12-BUI2620-02), Ongoing.

# vii) Scholarships and Awards

2017 Engineer Al-Qasabi National Award for excellence in scientific research in Civil Engineering for best research in Saudi Arabia – 30 April 2017

2016 Research excellence award, College of Engineering, King Saud University – 19 April 2016

2016 Engineer Al-Qasabi National Award for excellence in scientific research in Civil Engineering for best research in Saudi Arabia – 2 Feb. 2016

2015 Research excellence award, College of Engineering, King Saud University

2012 Distinguished Best Chair among all engineering research chairs (Grade A)

2012 Outstanding undergraduate student award – Awarded by College of Engineering, King Saud University

2011 Distinguished Best Chair among all engineering research chairs (Grade A)

2011 Gold medal at the International Inventions Exhibition in Malaysia in February 2011

2011 Gold medal at the Geneva International  Inventions Fair- April 2011

2010 University Rector Distinguished performance award (for the chair)

2009 Outstanding Research Award for infill walls project, awarded by Deanship of Scientific Research, King Saud University

2008 Best Paper Award – Awarded by American Society of Civil Engineers (ASCE) - Journal of Composites for Construction.

2008 Distinguished Paper – The 5th International Engineering and Construction Conference (IECC’5), American Society of Civil Engineers, International Committee, Los Angeles Section, August 27-29, 2008.

2007 Distinguished Research Award, King Abdulaziz for Science and Technology (KACST), Research No. AR-16-52.

4/10/1991 Prince Bandar Bin Sultan Award which has been given to the best graduate Ph.D. students who graduate with high GPA.

12/1/1986 – 16/8/1991 Scholarship from King Saud University for Graduate Studies (M.Sc. and Ph.D.) in the United States of America.

# viii) Patents

1. “Closed-loop fiber reinforced concrete”, Filed for US patent, Application No: 15624834; Date of Filing: 16 Jan 2017
2. “An integral tile/foam building block and method for making same”, US patent, US 20160130811 A1, 12 May 2016, Published.
3. “An integral tile/foam building block and method for making same”, SA 5577, 29 Oct. 2017.
4. “Interlocking and insulated construction blocks”, US 9,822,529 B1, Nov. 21, 2017,
5. “Precast reinforced concrete construction elements with pre-stressing connectors”, US9765521 B1, Sep 19, 2017.
6. “Concrete-filled steel tubular column for high load carrying capacity and fire resistance”, US patent, US 9677273 B2, Jun 13, 2017.
7. “Interlocking masonry blocks for construction of load bearing and non-load bearing walls”, US patent, US 9435118 B2, Sept. 6, 2016.
8. “Apparatus for assessing durability of stressed fiber reinforced polymer (FRP) bars”, US patent, US9341553B2, 17 May 2016.
9. EP Patent Application No.: 2509925 A2, “Chloride ingress-resistant concrete and articles formed therewith”, Oct. 17, 2012.
10. WO patent application No. 2011071884 A3, “Chloride ingress-resistant concrete and articles formed therewith”, Oct. 13, 2011.
11. U.S. patent application No: 7717999 A1; “Chloride Ingress resistant concrete”, June 9, 2011.
12. U.S. patent No: 7717999 B1; Title: Titanium production waste byproduct as partial cement replacement, May 2010.
13. U.S. patent No: 7824322 B2; Title: Titanium production waste byproduct as partial cement replacement, Nov. 2010.

# ix) Workshops Organized

1. Workshop on Applications of advanced composite materials to alleviate the problems of corrosion of iron in the concrete structures, College of Engineering, 6-8/3/1430 (3-5 March 2009).
2. Structural Analysis and Design Using SAFI (Jan. 2009)
3. Dynamic Structural Analysis Using ANSYS, FEMB and LS-DYNA, MMB Chair of Research and Studies on strengthening and rehabilitation of structures, April 2009.
4. Workshop on Progressive Collapse analysis of RC buildings using LS-DYNA software, MMB Chair of Research and Studies on strengthening and rehabilitation of structures, April 2010.
5. Dynamic Structural Analysis using AUTODYN, MMB Chair of Research and Studies on strengthening and rehabilitation of structures, Sept. 2011.

# x) Training Courses Organized

1. “Progressive collapse analysis of RC buildings” Dr. Tuan Ngo, The University of Melbourne (April 2010)
2. “Progressive collapse analysis of steel buildings” Dr. Tuan Ngo, The University of Melbourne (Sept. 2011)
3. “Health monitoring of bridges”
4. “Instrumentation of critical infrastructure”
5. “Cathodic protection for controlling corrosion of rebars in RC structures”,
6. “Self-sensing properties of concrete mixed with nano-particles for health monitoring”, Prof. Nemkumar (Nemy) Banthia, UBC, Canada.
7. “Material and structure testing at high strain rate”

# xi) Scientific Thesis Supervised Recently

1. “A study of kaolin-based geopolymer concrete mix for producing masonry blocks”, Ebrahim Moharrm, MS thesis, 2018.
2. “Rehabilitation of Beam-Column Connections in Existing Precast Concrete Buildings for Progressive Collapse Mitigation”, Mohammed Alrubaidi, MS Thesis, 2016.
3. “Improving the impact resistance of reinforced high strength concrete slabs”, Aref A. Abadel, Ph.D. thesis, 2016.
4. “Reliability of Steel Plates Shielded by RC Walls against the Impact of Projectiles”, Baha Khateeb, MS Thesis, 2013.
5. “Assessment of progressive collapse potential of R/C buildings in Riyadh due to blast attacks”, Mohammad Yahya Khawaji, MS thesis, 2011.
6. “Potential of Progressive Collapse of Typical Steel Buildings against Blast Generated Waves”, Yousef Rodaiman Alharbi, MS thesis, 2011.
7. “Evaluation and performance of repair materials for rehabilitation of concrete structures”, Almosa A., MS thesis, 2011.

# xii) Graduation Projects Supervised

 Supervised and Co-supervised the graduation projects of more than 45 undergraduate students.

# xiii) Refereed Technical Reports

1. S.H. Alsayed, T.H. Almusallam, Y.A. Al-Salloum and M.A. Amjad, Glass Fiber Reinforced Plastic Bars: Properties and Applications for Concrete Structures, 1st Progress Report-Research Project AR-14-35, King Abdulaziz City for Science and Technology (KACST), September 1994, Riyadh, Saudi Arabia, 66pp.
2. S.H. Alsayed, T.H. Almusallam, Y.A. Al-Salloum and M.A. Amjad, Glass Fiber Reinforced Plastic Bars: Properties and Applications for Concrete Structures, 2nd Progress Report-Research Project AR-14-35, King Abdulaziz City for Science and Technology (KACST), April 1995, Riyadh, Saudi Arabia, 84pp.
3. S.H. Alsayed, T.H. Almusallam, Y.A. Al-Salloum and M.A. Amjad, Glass Fiber Reinforced Plastic Bars: Properties and Applications for Concrete Structures, 4th Progress Report-Research Project AR-14-35, King Abdulaziz City for Science and Technology (KACST), March 1996, Riyadh, Saudi Arabia, 75 pp.
4. S.H. Alsayed, T.H. Almusallam, Y.A. Al-Salloum and M.A. Amjad, Glass Fiber Reinforced Plastic Bars: Properties and Applications for Concrete Structures, 4th Progress Report-Research Project AR-14-35, King Abdulaziz City for Science and Technology (KACST), March 1996, Riyadh, Saudi Arabia, 75 pp.
5. S.H. Alsayed, T.H. Almusallam, Y.A. Al-Salloum and M.A. Amjad, Glass Fiber Reinforced Plastic Bars: Properties and Applications for Concrete Structures, 5th Progress Report-Research Project AR-14-35, King Abdulaziz City for Science and Technology (KACST), October 1996, Riyadh, Saudi Arabia, 98 pp.
6. S.H. Alsayed, Y.A. Al-Salloum and T.H. Almusallam, Rehabilitation of the Infrastructure Using Composite Fabrics, 1st Progress Report-Research Project AR-16-52, King Abdulaziz City for Science and Technology (KACST), May 1998, Riyadh, Saudi Arabia, 77 pp.
7. S.H. Alsayed, Y.A. Al-Salloum and T.H. Almusallam, Rehabilitation of the Infrastructure Using Composite Fabrics, 2nd Progress Report-Research Project AR-16-52, King Abdulaziz City for Science and Technology (KACST), December 1998, Riyadh, Saudi Arabia, 67 pp.
8. S.H. Alsayed, Y.A. Al-Salloum and T.H. Almusallam, Rehabilitation of the Infrastructure Using Composite Fabrics, 3ed Progress Report-Research Project AR-16-52, King Abdulaziz City for Science and Technology (KACST), Jun 1999, Riyadh, Saudi Arabia, 123pp.
9. S.H. Alsayed, Y.A. Al-Salloum and T.H. Almusallam, Rehabilitation of the Infrastructure Using Composite Fabrics, 4th Progress Report-Research Project AR-16-52, King Abdulaziz City for Science and Technology (KACST), December 1999, Riyadh, Saudi Arabia, 145pp.
10. S.H. Alsayed, Y.A. Al-Salloum and T.H. Almusallam, Rehabilitation of the Infrastructure Using Composite Fabrics, 5th Progress Report-Research Project AR-16-52, King Abdulaziz City for Science and Technology (KACST), June 2000, Riyadh, Saudi Arabia, 115pp.
11. S.H. Alsayed, T.H. Almusallam and Y.A. Al-Salloum, Seismic Upgrade of Beam-Column Joints Using FRP Sheets," 3rd Progress Report, Research Project AR-21-40, KACST, Saudi Arabia.
12. S.H. Alsayed, Y. A., Al-Salloum and T.H. Almusallam, "Rehabilitation of the Infrastructure Using Composite Fabrics", Research Project AR-16-52, KACST, Riyadh, Saudi Arabia. 2002.
13. S.H. Alsayed and T.H. Almusallam, "Evaluation of Concrete/FRP Adhesive Bond Under Different Environmental Condition, Research Project 36/423-SABIC, Sep. 2004, 55pp.
14. T.H., Almusallam, S. H. Alsayed and Y.A. Alsalloum Seismic Strengthening Of Infill Walls In Buildings Using Composite Sheets," Final Report- National Project-Deanship of Scientific Research-King Saud University, AR 59, May 2005, 212pp.
15. S.H. Alsayed, T.H. Almusallam, Y.A. Al-Salloum, and M.A. Amjad, "Glass Fiber Reinforced Plastic Bars: Properties and applications for concrete structures", Research Project AR-14-35, KACST, Riyadh, Saudi Arabia.
16. T.H. Almusallam, S.H. Alsayed, Y.A. Al-Salloum, P. Mendis and T. Ngo, “Development of an advanced risk and vulnerability assessment methodology and framework for buildings in Riyadh against blast generated waves”, Collaborative Project Between King Saud University and The University of Melbourne, Project No. KSU-UOM 0109, Twining Program of King Saud University, Riyadh, Dec. 2012, 459pp.
17. T.H. Almusallam, S.H. Alsayed, Y.A. Al-Salloum and H. Abbas, “Strengthening Reinforced Concrete Using CFRP and Wire Mesh for Improved Impact Resistance”, National Plan for Science and Technology, KACST, Research Project No.: ADV728-02, 245pp.

# xiv) Publications

## Papers in ISI Journals

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| 60. | Yousef Al-Salloum, S. Hadi, H. Abbas, **Tarek Almusallam**, M.A. Moslem (2017), “Bio-induction and bioremediation of cementitious composites using microbial mineral precipitation – A review”, Construction and Building Materials, 154, 857–87. |
| 59. | Hussein M. Elsanadedy, **Tarek H. Almusallam**, Yousef A. Al-Salloum and Husain Abbas (2017), “Investigation of precast RC beam-column assemblies under column-loss scenario”, Construction and Building Materials, 142, 552–571. |
| 58. | **Tarek Almusallam**, Yousef Al-Salloum, Tuan Ngo, Priyan Mendis & Husain Abbas, "Experimental Investigation of Progressive Collapse Potential of Ordinary and Special Moment Resisting Reinforced Concrete Frames", Materials and Structures, 50:137, DOI: 10.1617/s11527-017-1014-x |
| 57. | M. S. Morsy, Y.A. Al-Salloum, **T.H. Almusallam** and H. Abbas (2017), “Mechanical properties, phase composition and microstructure of activated Metakaolin-slaked lime binder”, KSCE J of Civil Eng., 21 (3), pp. 863-871 DOI: 10.1007/s12205-016-0667-2 |
| 56. | Hussein Elsanadedy, **Tarek Almusallam**, Yousef Al-Salloum and Rizwan Iqbal (2017), “Effect of high temperature on structural response of RC circular columns strengthened with FRP composites”, Journal of Composite Materials, Vol. 51(3): 333–355. |
| 55. | Yousef Al-Salloum, H. Abbas, Q.I. Sheikh, S. Hadi, Saleh Alsayed, **Tarek Almusallam** (2017), “Effect of some biotic factors on microbially-induced calcite precipitation in cement mortar”, Saudi Journal of Biological Sciences, Vol. 24, 286–294. |
| 54. | Aref Abadel, Husain Abbas, **Tarek Almusallam**, Yousef Al-Salloum, Nadeem Siddiqui, Mohammed A. Shubaili, Hossam El-Din M. Sallam (2016), “Discussion: Mechanical properties of hybrid fibre-reinforced concrete – analytical modelling and experimental behavior”, Magazine of Concrete Research, Paper 1600243, Volume 68 Issue 22, November, 2016, pp. 1183-1186. |
| 53. | **Tarek Almusallam**, S.M. Ibrahim, Yousef Al-Salloum, Aref Abadel and Husain Abbas (2016), “Analytical and experimental investigations on the fracture behavior of hybrid fiber reinforced concrete”, Cement and Concrete Composites, Vol. 74, pp. 201-217. |
| 52. | Yousef Al-Salloum, **Tarek Almusallam**, Hussein Elsanadedy and Rizwan Iqbal (2016), “Effect of elevated temperature environments on RC columns axially strengthened with different techniques”, Construction and building materials, Vol. 115, pp. 345-361. |
| 51. | S.M. Ibrahim, **Tarek Almusallam**, Yousef Al-Salloum, Aref Abadel and H. Abbas (2016), “Strain rate dependent modeling for compression response of hybrid fiber reinforced concrete”, Latin American Journal of Solids and Structures, Vol. 13, pp. 1695-1715. |
| 50. | H.M. Elsanadedy, H. Abbas, Y.A. Al-Salloum and **T.H. Almusallam** (2016), “Shear strength prediction of HSC slender beams without web reinforcement”, Materials and Structures, Vol. 49, Issue 9, pp. 3749-3772, DOI 10.1617/s11527-015-0752-x |
| 49. | Aref Abadel, Husain Abbas, **Tarek Almusallam**, Yousef Al-Salloum, Nadeem Siddiqui (2016), “Mechanical properties of hybrid fibre-reinforced concrete–analytical modelling and experimental behaviour”, Magazine of Concrete Research, 68(16), 823–843, DOI: 10.1680/jmacr.15.00276. |
| 48. | Al-Salloum Y.A., **Almusallam T.H.**, M.Y. Khawaji, Ngo T., Elsanadedy H.M., and Abbas H. (2015), “Progressive collapse analysis of RC Buildings against Internal Blast”, Advances in Structural Engineering,Vol. 18, No. 12, pp. 2181-2192. |
| 47. | **Tarek H. Almusallam**, Aref A. Abadel, Yousef A. Al-Salloum, Nadeem A. Siddiqui, and Husain Abbas (2015), “Effectiveness of hybrid-fibers in improving the impact resistance of RC slabs”, International Journal of Impact Engineering, Vol. 81, pp. 61-73. |
| 46. | **T.H. Almusallam**, Y.A. Al-Salloum, S.H. Alsayed, Rizwan A. Iqbal, H. Abbas (2015), “Effect of CFRP strengthening on the response of RC slabs to hard projectile impact”, Nuclear Engineering and Design, Vol. 286, pp. 211–226. |
| 45. | Ayman Mosallam, Hussein M Elsanadedy, **Tarek H Almusallam**, Yousef A AL-Salloum, Saleh H Alsayed (2015), “Structural evaluation of reinforced concrete beams strengthened with innovative bolted/bonded advanced frp composites sandwich panels”, Composite Structures 124: 421–440. |
| 44. | **Tarek H. Almusallam**, Hussein Elsanadedy, Yousef A. Al-Salloum (2015), “Effect of Longitudinal Steel Ratio on Behavior of RC Beams Strengthened with FRP Composites - Experimental and FE Study”, Journal of Composites for Construction, Volume 19, Issue 1, 04014028. |
| 43. | Yousef Al-Salloum, **Tarek Almusallam**, S.M. Ibrahim, H. Abbas and Saleh Alsayed (2015), “Rate dependent behavior and modeling of concrete based on SHPB experiments”, Cement & concrete composites, Vol. 55, 34-44. |
| 42. | Husain Abbas, Aref A. Abadel, **Tarek H. Almusallam** and Yousef A. Al-Salloum (2015), “Effect of CFRP and TRM strengthening of RC slabs on punching shear strength”, Latin American Journal of Solids and Structures, Vol. 12, pp. 1616-1640. |
| 41. | H.M. Elsanadedy, H. Abbas, Y.A. Al-Salloum and **T.H. Almusallam** (2015), Closure to “Prediction of Intermediate Crack Debonding Strain of Externally Bonded FRP Laminates in RC Beams and One-Way Slabs,” [Journal of Composites for Construction](http://ascelibrary.org/loi/jccof2), ASCE, 19(2), 07014004. |
| 40. | Elsanadedy H.M, **Almusallam T.H.**, Alsayed S.H., Al-Salloum Y.A. (2015), “Experimental and FE study on RC one-way slabs upgraded with FRP composites”, KSCE J Civil Eng 19(4):1024-1040. |
| 39. | H.M. Elsanadedy, H. Abbas, Y.A. Al-Salloum and **T.H. Almusallam** (2014), “Prediction of intermediate crack debonding strain of externally bonded FRP laminates in RC beams and one-way slabs”, Journal of Composites for Construction, Vol. 18(5), 04014008. |
| 38. | Yousef Al-Salloum, Saleh Alsayed, **Tarek Almusallam**, S.M. Ibrahim and H. Abbas, “Investigations on the influence of radial confinement in the impact response of concrete”, Computers and Concrete, Vol. 14, No. 6 (2014) 675-694. |
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# xv) Laboratories Established

1. Laboratory for repair and rehabilitation of structures
2. Structural test facility for progressive collapse testing of structures
3. Dynamic material and structure testing laboratory
4. Advanced blast analysis software laboratory
5. Control and command center for infrastructure health monitoring
6. Self-healing materials research laboratory

(Updated till Feb. 2018)

(Tarek H. Almusallam)