

# Abdulrahman Mohammad Alhozaimy, Ph.D

## Education

*King Saud University, Riyadh, Saudi Arabia*

<u>Year</u>	<u>Degree</u>	<u>Field</u>
1986	B.Sc.	Civil Engineering

*Michigan State University, Michigan, U.S.A.*

<u>Year</u>	<u>Degree</u>	<u>Field</u>
1989	M.Sc.	Civil Engineering
1993	Ph.D.	Civil Engineering

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## Academic Experience - King Saud University, Civil Engineering Department

1. Professor (2009- present)
2. Associate Professor (2000-2009)
3. Assistant Professor (1994-2000)

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## Awards

1. The Custodian of the two Holy Mosques Prize for Honoring Inventors and the Gifted 2016
2. King Saud University Award for Scientific Excellence 2016
3. Award of Excellence for Research on the Faculty of Engineering at King Saud University 2014
4. Tarek Elkasabi Award for Excellence in Civil Engineering in Saudi Arabia 2014
5. Gold medal at the 41st International exhibition of Inventions held in Geneva, April 2013
6. Medal of Excellence from King Saud University for inventors 2011 and 2013
7. Gold medal at the 40th International exhibition of Inventions held in Geneva, April 2012
8. Two gold medals at the 38th International exhibition of Inventions held in Geneva 2010
9. Gold Medal at the 10th British Invention Show (BIS) 2010 held in London
10. Almarai Award of Scientific Innovation-Distinguished Scientist Prize granted by King Abdulaziz City for Science and Technology (2009)
11. Gold Medal and Special Award at the 9<sup>th</sup> British Invention Show (BIS) 2009 held in London.
12. Gold Medal in Research Products and Invention Exhibition 2009 (PRPI09) in Malaysia.
13. Ambassador Award for Academic Achievement in M.Sc.(1989) and Ph.D (1993).

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## Grants

More than 20 projects were funded by grants from Sabic Company, King Abdulaziz City for Science and Technology (KACST), King Saud University and National Science, Technology and Innovation Plan (NSTIP) of Saudi Arabia.

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## Patents

Eleven patents were granted from US Patent Office in the field of concrete technology and sustainability.

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## Publications (Summary)

- More than 100 papers published in refereed Journals and Conferences.
- Web of Science ISI Citation = 310
- Google Scholar Citation = 614

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## Professional and Consultation Activities

- 2009 - 2015: Coordinator of Quality Assurance team for concrete and structural works of the 15 billion Saudi Riyal Strategic Construction Projects at King Saud University which include the new Girl Campus project, extension of Medical City, new faculty housing project, Sport Arena, Sport Stadium as well Endowment projects.
- 1995 - Present: Part-time Consultant to Riyadh Municipality for Quality Scheme of Ready-mixed Concrete Plants and Block Manufacturers.
- 2008 –Present: Co-founder and deputy Director of the Center of Excellence for Concrete Research and Testing (CoE-CRT), King Saud University.
- 2016-2017: Consultancy Services to JDCO Aljazirah Development Factory for Concrete Products.
- 2003 – Present: Member of Concrete Committee for the Developing of Saudi Building Code for Concrete SBC 304.

- 2003 - Present: Member of Testing and Inspection Committee for the Developing of Saudi Building Code for construction and structural testing SBC 302.
- 1998 - Present: Member and active participant in the activities of the local saudi chapter of the American Concrete Institute (ACI-SAC)
- 2002- Present: Structural Evaluation for several government and private Buildings

### Current Research Interests

- Concrete in Hot Climates
- Concrete Admixtures
- Ready Mixed Concrete and Quality Schemes
- Corrosion of RC Structures and Nanotechnology
- Utilization of Natural and By-Products Pozzolanic Materials in Concrete
- Utilization of Recycled Waste in Concrete
- Durability of Concrete and FRP Composites

### PATENTS

1. **Alhozaimy, A.**, Saleh, J., Al-Negheimish, A., and Noorzaei, J. "Cement/Aggregate Composition, Concrete Product and Method for Making a Concrete Product," US Patent No. 9,630,880 B2, April.25, 2017.
2. R. Al-Zaid, A. Al-Negheimish, **A. Alhozaimy** and M.I. Khan "EAFD stabilizer for returned concrete and mixer-drum wash water" US Patent No. 9,623,451 B2, April.18, 2017.
3. Hussain R.R., **Alhozaimy A.**, Al-Negheimish A. and Singh DDN, "Method of ascertaining the fully grown passive film on steel rebar embedded in concrete by using Electrochemical Impedance Spectroscopy", US Patent No. 9,625,403 B1, April.18, 2017.
4. Hussain R.R., **Alhozaimy A.**, Al-Negheimish A. and Singh DDN "Anti Corrosion Treatment Composition for Steel Rebar Embedded in Concrete" US Patent No. US9469769 B1, October 18, 2016.
5. Fares G., R.Z. Al-Zaid, A. Fauzi, **A.M. Alhozaimy**, Al-Negheimish A.I. and M.I. Khan. "Supplementary cementitious material and method for disposing Electric-Arc Furnace Dust (EAFD)" US Patent No. 9,481,604 B2, Nov.1, 2016
6. G. Fares, R. Al-Zaid, **Alhozaimy, A.** Al-Negheimish, and M.I. Khan "Supplementary cementitious material and method for disposing Electric-Arc Furnace Dust (EAFD) "US Patent No. 9,187,371 , Nov, 17, 2015.
7. Alshannag M and **Alhozaimy A** "Machine for Deforming and Cutting Plastic Fibers for Enhancing Concrete",US Patent No. 9,127,457 , Sep, 8, 2015
8. **Alhozaimy, A.**, Saleh, J., Al-Negheimish, A., and Alawad, O. "Cement Composition Containing Dune Sand and Limestone Powder, Concrete Products and Method for Making Concrete Products", US Patent No. 9,039,830 , May, 26, 2015.
9. **Alhozaimy, A.**, Saleh, J., Al-Negheimish, A., and Noorzaei, J. "Cement/Aggregate Composition, Concrete Product and Method for Making a Concrete Product," U.S. Patent No. 8,293,006, Oct.23, 2012.
10. Al-Negheimish, A.I., Al-Zaid, R.Z. and **Alhozaimy, A.** "Method for Manufacturing Concrete Containing Electric Arc Furnace Dust," US Patent No. 8,152,917 , April, 10, 2012.
11. Al-Negheimish, A.I., **Alhozaimy, A.** and Al-Zaid, R.Z. "Process for Producing Concrete in Hot Weather," US Patent No.8,,071,010 , Dec, 06, 2011.

12. **Alhozaimy A**, Jaafar., M.S., Al-Negheimish A., and Noorzai J., "Cement/Aggregate composition, concrete product and method for making a concrete product" , Saudi Patent No. 4293 dated Nov. 23, 2015.
13. **Alhozaimy, A.**, Saleh, J., Al-Negheimish, A., and Alawad, O. "Cement Composition Containing Dune Sand and Limestone Powder, Concrete Products and Method for Making Concrete Products", Saudi Patent No. 4383 dated Oct. 5, 2015.

## **PUBLICATIONS**

### **JOURNAL PAPERS**

1. Raja Rizwan Hussain, J. K. Singh, Abdulrahman Alhozaimy, Abdulaziz Al-Negheimish, C. Bhattacharya, R. S Pathania and D.D. N Singh (2018), Effect of Reinforcing Bar Microstructure on Passive Film Exposed to Simulated Concrete Pore Solution, ACI Materials Journal, ISI, Journal ISSN: 0889-325X, Vol. 115, No. 2, pp181-190..
2. G. Fares, **A. Alhozaimy**, O.A. Alawad, A. Al-Negheimish. 2017. Properties of high-performance concrete incorporating high-volume ground scoria rocks as natural pozzolan. Magazine of Concrete Research. Vol. 69, No. 14, pp. 703-715.
3. Al-Negheimish A.I. and **Alhozaimy, A.**, Hussain R R, A, J.K.Singh and D.D.N.Singh (2017), Pitting Susceptibility of Concrete Rebars having MnS Inclusions, ACI Materials Journal, Vol. 114, No. 3, pp 441-451.
4. **Alhozaimy A.**, Hussain R.R, A.L-Negheimish A., (2016), "Significance of oxygen concentration on the quality of passive film formation for steel reinforced concrete structures during the initial curing of concrete", Cement and Concrete Composites Journal, , Vol. 65, pp. 171-176.
5. Hussain R.R., **Alhozaimy A.**, Al Negheimish A. and Singh DDN (2016), "Accelerated rusting of rebar: The role of manganese alloying in concrete reinforcement steel bars", ACI Materials Journal, Journal ISSN: 0889-325X, Paper No. M-2015-083.R2, Vol. 113, No. 4, pp. 1-10
6. Fares G., **Alhozaimy A.**, Alawad A. O and A.L-Negheimish A. (2016) "Evaluation of Powdered Scoria Rocks from Various Volcanic Lava Fields as Cementitious Material By". Journal of Materials in Civil Engineering, Vol.28 Issue 3 pp 15139-1-9.
7. B.S. Al-Tulaiana, M.J. Al-Shannagb, **A.R. Al-Hozaimy**, (2016) "Recycled plastic waste fibers for reinforcing Portland cement mortar", Construction and Building Materials Journal, Vol. 127, pp.102-110.
8. Shuraim A, Aslam F, Hussain R, **Alhozaimy A**, (2016) "Analysis of Punching Shear in High Strength RC Panels–Experiments, Comparison with Codes and FEM Results", International Journal of Computers and Concrete, Vol. 17, No. 6, pp. 739-760.
9. Shuraim A, Aslam F, Hussain R, Alhozaimy A, (2016) "Coupled effect of coarse aggregate type and silica fume on creep coefficients of high strength Concrete", Journal of Materials in Civil Engineering, ASCE, Vol. 28, Issue 12: 04016159, pp. 1-13.
10. Fares G., R.Z. Al-Zaid, A. Fauzi, **A.M. Alhozaimy**, Al-Negheimish A.I. and M.I. Khan.(2016) "Performance of optimized EAFD-based cementitious matrix compared to conventional supplementary cementitious materials", Construction and Building Materials, Vol. 112, 2016, pp. 210-221.
11. Shuraim, A. B., El-Sayed, A. K., Al-Negheimish, A. I, and **Alhozaimy, A. M.**, (2016) "Efficiency of CFRP Strengthening in Controlling the Deflection of RC Beams in a Redundant Structural System", Journal of Composites for Construction, ASCE, Vol. 20, No. 2, pp. 1-11

12. **Alhozaimy A.**, Fares G., Alawad A. O and A.L-Negheimish A. (2015). " Heat of Hydration of Concrete Containing Powdered Scoria Rock as a Natural Pozzolan Material" Construction and Building Materials Journal, Vol. 81, pp. 113-119.
13. Hussain R.R, **Alhozaimy, A.**, A.L-Negheimish A., Al-Zaid R.and DDN Singh (2015), "Mechanism of nucleation and growth of passive film on steel rebar at different durations of its exposure in concrete pore solution at nanoscale", ACI Materials Journal, ISI, V. 112, No. 1-6,
14. Hussain R.R, Shruaim A and **Alhozaimy, A.**, (2015), Investigation for the impact of nature of coarse aggregate on the passive layer formation and corresponding corrosion of reinforcement bars in high performance concrete, Construction and building materials Journal, Vol. 100, pp.52-62.
15. Alawad O.A., **Alhozaimy A.**, Jaafar M.S., Abdul Aziz F. N., Al-Negheimish A. (2015), "Effect of Autoclave Curing on the Microstructure of Blended Cement Mixture Incorporating Ground Dune Sand and Ground Granulated Blast Furnace Slag" International Journal of Concrete Structures and Materials Vol 9 Issue 3 pp 381-390
16. **Alhozaimy A.**, Hussain R.R, A.L-Negheimish A., Al-Zaid R.and DDN Singh (2014) "Effect of Simulated Concrete Pore Solution Chemistry, Chloride Ions, and Temperature on the Passive Layer Formed on Steel Reinforcement", ACI Materials Journal, MS Paper No. M-2012-309, Vol. 111-M37, Issue 4, No. 1-6, pp. 411-421.
17. Hussain R.R, **Alhozaimy, A.**, and A.L-Negheimish A (2014), "Investigation of the Effect of Fineness Dependent Volume of Fine aggregate on the Passive Layer Formation and Corresponding Corrosion of Steel Reinforced Concrete using Electrochemical Approach", Corrosion Engineering Science & Technology Journal, Volume 49, Issue 8, pp. 736-742.
18. Hussain R.R, **Alhozaimy, A.**, and A.L-Negheimish A and DDN Singh (2014), Time-dependent variation of the electrochemical impedance for thermo-mechanically treated versus plain low alloy steel rebars in contact with simulated concrete pore solution, Construction and Building Materials Journal, Vol. 73, pp. 283–288.
19. El-Sayed, A.K., Al-Zaid, R.Z., Al-Negheimish, A.I, Shuraim, A.B., and **Alhozaimy, A.M.**, (2014). "Long-Term Behavior of Wide Shallow RC Beams Strengthened with Externally Bonded CFRP Plates," Construction and Building Materials Journal, Vol. 51, pp. 473-483.
20. **Alhozaimy A.**, Alawad A. O, Jaafar M. S, AL-Negheimish A and Noorzaei J, (2014) "Use of fine ground dune sand as a supplementary cementing material", Journal of Civil Engineering and Management, Vol. 20, Issue 1, pp. 32-37.
21. Alawad O.A., **Alhozaimy A.**, Jaafar M.S., Al-Negheimish A., Abdul Aziz F. N., (2014), "Microstructure analyses of autoclaved ground dune sand-Portland cement paste", Construction and Building Materials, Volume (65), pp. 14-19.
22. Al-Zaid, R. Z.,El-Sayed, A. K., Al-Negheimish, A. I, Shuraim, A. B., and **Alhozaimy, A. M.** (2014) "Strengthening of Structurally Damaged Wide Shallow RC Beams Using Externally Bonded CFRP Plates" Latin American Journal of Solids and Structures, Vol. 11, No. 6, pp: 946-965.
23. Al-Negheimish A.I. and **Alhozaimy, A.**, Hussain R R, Al-Zaid R, J.K.Singh and D.D.N.Singh (2014), "The role of manganese sulfide inclusions in steel rebar in the formation and breakdown of passive films in concrete pore solutions", NACE Corrosion Journal, ISI, Vol. 70, Issue 1, pp. 74-86.
24. **Alhozaimy A.**, Fares G., A.L-Negheimish A. and Jaafar M S (2013). "The autoclaved concrete industry: An easy-to-follow method for optimization and testing" Construction and Building Materials Journal, Elsevier, Vol. 49, pp. 184-193.
25. **Alhozaimy A.**, Hussain R.R, A.L-Negheimish A. and Al-Zaid R. (2012) "Investigation of Severe Corrosion Observed at Intersection Points of Steel Rebar Mesh in Reinforced Concrete Construction", Construction and Building Materials Journal, Elsevier, Vol. 37, pp. 67–81.

26. **Alhozaimy A**, Al-Negheimish A, Alawad O. A, Jaafar M. S, Noorzaei J., (2012), "Binary and ternary effects of ground dune sand and blast furnace slag on the compressive strength of mortar", *Cement and Concrete Composites*, Volume (34) Issue (6) pp734-738.
27. **Alhozaimy A**, Jaafar M. S, Al-Negheimish A, Abdullah A, Taufiq-Yap Y. H, Noorzaei J, Alawad O. A, (2012), "Properties of high strength concrete using white and dune sands under normal and autoclaved curing", *Construction and Building Materials*, Volume (27), Issue (1), pp 218-222.
28. Abdullah, A., M. S. Jaafar, Y. H. Taufiq-Yap, A. **Alhozaimy**, A. Al-Negheimish, and J. Noorzaei., (2012), "The effect of various chemical activators on pozzolanic reactivity: A review". *Scientific Research and Essays* Volume (7), pp 719-729.
29. Abdulaziz I. Al-Negheimish<sup>1</sup>; Ahmed K. El-Sayed<sup>2</sup>; Rajeh A. Al-Zaid<sup>3</sup>; Ahmed B. Shuraim<sup>4</sup>; and **Abdulrahman M. Alhozaimy**, (2012), "Behavior of Wide Shallow RC Beams Strengthened with CFRP Reinforcement ", *Journal of Composites for Construction*, Volume 16, pp418-429.
30. **Alhozaimy A**, Raja Rizwan Hussain, Rajeh Al-Zaid and Abdulaziz Al- Negheimish (2011) "Coupled Effect of Ambient High Relative Humidity and Varying Temperature Marine Environment on Corrosion of Reinforced Concrete", *Construction and Building Materials Journal*, Vol. 28, Issue 1, pp. 670–679.
31. M.I. Khan, **A. M. Alhozaimy**, (2011) "Properties of Natural Pozzolan and Its Potential Utilization in Environmental Friendly Concrete", *Canadian Journal of Civil Engineering*, Vol. 38, No. 1, pp. 71-78.
32. **Alhozaimy, A.**, and Al-Negheimish, A.I., (2009) "Plastic Shrinkage Cracking of Ready-Mixed Concrete in Hot-Arid Environment," *Concrete International*, Vol. 31, No.9, pp. 26-32.
33. **Alhozaimy, A.**, (2009) "Effect of Absorption of Limestone Aggregates on Strength and Slump Loss of Concrete", *Journal of Cement and Concrete Composites*, Vol. 31, pp.470-473.
34. **Alhozaimy, A.** and Shannag, M., (2009) "Performance of Concrete Reinforced with Recycled Plastic Fibers," *Magazine of Concrete Research (MCR)*, 61, No.4, pp.293-298.
35. **Alhozaimy, A.**, (2009) "Effect of Bituminous Coatings on the Sulfate Resistance of Mortar," *Ain Shams Journal of Civil Engineering*, Vol. 1, March, pp. 217-223.
36. Al-Negheimish A.I. and **Alhozaimy, A.**, (2008) "Impact of Extremely Hot Weather and Mixing Method on Changes In Properties of RMC During Delivery," *ACI Material Journal*, V. 105, No. 5, pp. 438-444.
37. **Alhozaimy, A.**, (2008)"Chemical Composition of Cement Produced in Saudi Arabia and its Influence on Concrete Strength" *Journal of King Saud University of Engineering Sciences*, Vol. 20, Eng.Sci (2), pp 69-76.
38. **Alhozaimy, A.**, (2007) "Effect of Retempering on the Compressive Strength of Ready-Mixed Concrete in Hot-Dry Environments" *Journal of Cement and Concrete Composites*, Vol 9, pp.124-127.
39. Al-Negheimish, A. and **Alhozaimy, A.**, (2004) "Classification scheme for the Ready Mix Concrete Plants in Riyadh, Saudi Arabia," *Journal of King Saud University of Engineering Sciences*, Vol. 2, No. 16, pp. 35-67. **(in Arabic)**
40. **Alhozaimy, A.**, and Al-Negheimish, A.I., (1999) "Introducing and Managing Quality Scheme for RMC Industry in Saudi Arabia", *Journal of ASCE, Construction Engineering and Management*, Vol. 125, No. 4, pp. 249-255.
41. Alsayed, S.H., and **Alhozaimy, A.**, (1999) "Ductility of Concrete Beams Reinforced with FRP Bars and Steel Fibers", *Journal of Composite Materials*, Vol. 33, No. 4.
42. **Alhozaimy, A.**, (1999) "Durability of Glass Fiber Reinforced Plastic Rebars Subjected to Different Temperature and Alkaline Environment," *Sci Bull. Fac. Eng. U. of Ain Shams, College of Eng., No.*

43. **Alhozaimy, A.**, (1998) "Correlation Between Materials Finer Than No. 200 Sieve and Sand Equivalent Tests for Natural and Crushed Stone Sands", Journal of ASTM, Cement, Concrete and Aggregates, Vol. 20, No. 2, pp. 221-226.
44. Alsayed, S. H. and **Alhozaimy, A.**, (1997) " Influence of Polypropylene Fibers on the Drying Shrinkage of RC Slabs Subjected to Hot-Dry Field Conditions," Science Bulletin, Faculty Engineering, Ain Shams, College of Engineering, Vol. 32, No. 1, March 31, pp. 45-58.
45. **Alhozaimy, A.**, Soroushian, P. and Mirza, F. (1996) "Mechanical Properties of Polypropylene Fiber Reinforced Concrete and the Effects of Pozzolanic Materials", Cement and Concrete Composites Journal, Vol. 18, No. 2, pp. 85-92.
46. **Alhozaimy, A.**, Soroushian, P. and Mirza F. (1996) "Effects of Curing Conditions and Age on Chloride Permeability of Fly Ash Mortar", ACI Material Journal, Vol. 93, No. 1, pp. 87-95.
47. Soroushian, P., Mirza, F. and **Alhozaimy, A.** (1995) "Permeability Characteristics of Polypropylene Fiber Reinforced Concrete", ACI Materials Journal, V. 92, No. 3, pp. 291-295.
48. Soroushian, P., Mirza, F. and **Alhozaimy, A.** (1994) "Plastic Shrinkage Cracking of Polypropylene Fiber Reinforced Concrete"" ACI Material Journal, Vol. 92, No. 3, Sept.-Oct. 1995, pp. 553-560.
49. Soroushian, P., Mirza, F. and **Alhozaimy, A.** "Bonding of Confined Steel Fiber Cocnrete", ACI Materials Journal, V. 91, No. 2, pp. 141-149.
50. Soroushian, P., Tlili, A., **Alhozaimy, A.** and Khan, A., (1993) "Development and Characterization of Hybrid Polyethylene Fiber Reinforced Cement Composites", ACI Material Journal, V. 90, No. 2, pp.182-190.
51. Soroushian, P., Nagi, M. and **Alhozaimy, A.**, (1992) "Statistical Variations in the Mechanical Properties of Carbon Fiber Reinforced Cement Composites", ACI Material Journal, V. 89, No. 2, pp. 131-138.

### **Conference Papers**

1. Alawad O.A., Alhozaimy A., Jaafar M.S., Abdul Aziz F. N., Al-Negheimish A. "Blended cement containing high volume ground dune sand and ground granulated blast furnace slag for autoclave concrete industry . 3rd International Conference on Advanced Material Engineering & Technology., Ho Chi Minh, Viet Nam. Ref No: ICAMET2014-144, 4-5 December 2014.
2. Alhozaimy A., Hussain R.R, and A.L-Negheimish A. "Effect of Steel Rebar Composition and Surface Condition on the Corrosion Rate of RC Structures", First International Conference on Concrete Sustainability (ICCS 13) Tokyo, Japan, 27-29 May 2013.
3. Alawad O. A., Alhozaimy A., Jaafar M. S., Al-Neghemish A, Properties of mortar incorporating ground dune sand as cement replacement material, Proceeding of Joint International Conference on Nanoscience, Engineering and Management (BOND21), Penang, Malaysia, 19-21 August 2013.
4. Shuraim, A.B., Hussain, R.R., Aslam, F., Alhozaimy, A.M. and Al-humaiqani M.M., Effect of Local Aggregate and Silica Fume on the Creep of High Performance Concrete – A Comparison with ACI and LRFD Models, Proceedings of 22nd International Conference on Structural Mechanics in Reactor Technology, Transactions, SMiRT-22, August 18-23 2013, San Francisco, California, USA.
5. Fauzi, A., Fares, G., Rajeh Al-Zaid, Z., Al-Negheimish, A., Alhozaimy, A. and Khan. M.I. "EAFD Performance Compared to Conventional Supplementary Cementitious Materials", International Conference on Quality in Research (QiR) in conjunction with the ICCS 2013, Structure, Geotechnique and Materials, SESSION F9. F9.4, 25-28 June 2013, Sheraton Mustika Hotel, Yogyakarta, Indonesia
6. G. Fares, R. Al-Zaid, M.I. Khan, A. Al-Negheimish, A. Alhozaimy and Suwito, "Characterization and Microstructural Deformation during the Hydration of EAFD-Cement Composite", RILEM Second

International Conference on Microstructure Related Durability of Cementitious Composites, Amsterdam, 11-13 April 2012.

7. G. Fares, A. Al-Negheimish, M.I. Khan, A. Alhozaimy, R. Al-Zaid and, "Micro-durability of SCC Mixtures Containing Limestone Dust and Natural Pozzolan", RILEM Second International Conference on Microstructure Related Durability of Cementitious Composites, Amsterdam, 11-13 April 2012.
8. R. Al-Zaid, Suwito, G. Fares, A. Al-Negheimish, **A. Alhozaimy** and M.I. Khan, "Microstructural Study on the Effects of Using Electric-Arc Furnace Dust (EAFD) as a Cementitious Material", *RILEM Second International Conference on Microstructure Related Durability of Cementitious Composites*, Amsterdam, 11-13 April 2012.
9. G. Fares, Al-Negheimish, A.A., **Alhozaimy, A.**, Khan, M.I., Al-Zaid, R.C., Optimization of SCC mixtures incorporating a polycarboxylate-based superplasticizer and materials available in Saudi Arabia, 13th International Congress on The Chemistry of Cement, ICC2011, Madrid, Spain, July 3-8, 2011.
10. Hussain Raja Rizwan, **Abdulrahman Alhozaimy**, Abdulaziz Al Negheimish and Rjeh Al Zaid (2011) Factors Affecting the Corrosion Rate at Intersection Points of Steel Rebar Mat in Reinforced Concrete Structures, Proceedings of NACE International, My Corrosion-My Prevention-My Solutions, Paper # 11015, Houston, Texas, USA.
11. Raja Rizwan Hussain, **Abdulrahman Alhozaimy**, Abdulaziz Al- Negheimish and Rajeh Al-Zaid, "EIS Investigation of the Effect of Reinforcement Steel Surface Composition, Material and Microstructure on the Corrosion Related Durability of Concrete", Proceedings of 31st Cement and Concrete Science Conference, Novel Developments and Innovation in Cementitious Materials, September 2011, Imperial College London, U.K, paper-33, pp.1-6.
12. Hussain Raja Rizwan, **Abdulrahman Alhozaimy**, Abdulaziz Al Negheimish and Rjeh Al Zaid (2011) Factors Affecting the Nano-Scale Investigation of Passive Layer for Corroding Steel Bars in Concrete Under Severe Environmental Actions, Proceedings of the Second International Conference on Future Concrete, 2011, Paper # 19, Dubai, UAE.
13. **Alhozaimy, A.**, Al-Negheimish A, "Strength Development of Concrete Made of Type I and Type V Cements Produced in Saudi Arabia," Proceedings of the 7th Saudi Engineering Conference (SEC7), King Saud University, Riyadh, 2007.
14. **Alhozaimy, A.**, Al-Negheimish A, Al-Sulaiman S., Al-Swaida S. and Al-Qahtani, M., "Quality Scheme for RMC as an Important Element for the Successful Implementation of the Saudi Building Code for Concrete Structures," Proceedings of the 7th Saudi Engineering Conference (SEC7), King Saud University, Riyadh, 2007.
15. Khan I. M., **Alhozaimy, A.**, Al-Saleem, A.M., "Performance of Concrete Utilizing The Natural Pozzolan Available in the Kingdom Of Saudi Arabia," the Seventh Saudi Engineering Conference (SEC7), King Saud University, Riyadh, 2007.
16. Al-Negheimish A, **Alhozaimy, A.**, Al-Sulaiman S., Al-Swaida S. and and Shahrani S., "Quality of Concrete Used in Housing Construction in Riyadh and the Role of The Forthcoming Saudi Building Code," Proceedings of the 7th Saudi Engineering Conference (SEC7), King Saud University, Riyadh, 2007.
17. O.S.B. Al-Amoudi , M. Maslehuddin, **A. Alhozaimy, A.** Al-Negheimish, W. Khushaifati, S. AlSayed, and A. Al-Shuraim, "Materials and Construction Requirements in the Saudi Building Code," A KEYNOTE SPEECH at the 8th International Concrete Conference on Concrete in Hot and Aggressive Environments, Bahrain, 27-29 November 2006.
18. **Alhozaimy, A.**, Al-Negheimish A, Al-Sulaiman S., Al-Swaida S. and Al-Qahtani, M., "Impact of Classification Scheme on the Performance of RMC Plants in Riyadh, Sudia Arabia," Civil and Structural Engineering Conference for the World Engineering Congress, Penang, Malaysia, 5-9 August 2007.
19. **Alhozaimy, A.** "Effect of Different Enviromnmental Conditons on the Long-Term Performance of New Generation of GFRP Bars", Proceeding of the Third International Coknference on Construction Materials, Vancouver, Canda, Augsut 2005.
20. T.H. Almusallam, Y.A. Al-Salloum, S.H. Alsayed, **Alhozaimy, A.**, "Durability of GFRP Rebars in Concrete Beams Under Sustained Loads at Severe Environments," Proceedings of the Sixth

International Symposium on FRP Reinforcement for Concrete Structures (FRPRCS-6), Edited by Kiang Hwee Tan, Singapore, 8-10 July 2003, pp. 823-832.

21. T.H. Almusallam, Y.A. Al-Salloum, S.H. Alsayed, **Alhozaimy, A.**, "Durability of GFRP Rebars in Stressed Concrete Beams at Different Environments," Proceedings of The Sixth Saudi Engineering Conference: Engineering and Engineering Education: Facing Current Challenges, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, Vol. 3, 21-23 October 2002, pp. 263-276.
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