

DR. Waleed H. Khushefati

Associate Professor, Civil & Environmental Engineering Dept., King Abdulaziz University

Education

<i>Degree</i>	<i>Discipline</i>	<i>Institution</i>	<i>Year</i>
PhD	Civil Engineering – Concrete Technology	University of London, UK	2004
DIC	Civil Engineering	Imperial College of Science, Technology and Medicine, UK	2004
MSc	Civil Engineering- Structures	Cornell University, USA	1985
BSc	Civil Engineering	King Abdulaziz University, Jeddah, Saudi Arabia	1981

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
2019	Present	King Abdulaziz Univ.	Assoc. Prof		Full Time
2011	2015	King Abdulaziz Univ.	Assistant. Prof.	Chairman, CE Dept.	Full Time
2004	2019	King Abdulaziz Univ.	Assist. Prof.		Full Time

Non Academic Experience

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position description (Brief)</i>
2014	present	National Committee for Saudi Building Code	Head of the Technical Committee for Existing Building	Developing the Saudi existing building code, SBC 901.
2011	2014	Concrete Science Section, of SSCE, ACI - SAC	Head of administrative Board	Spreading knowledge about Concrete in Saudi Arabia.
2011	2014	Saudi Society for Civil Engineering (SSCE).	Secretary	Member of the administrative board
2008	2011	Concrete Science Section, of SSCE, ACI - SAC	Member	Member of the administrative board
2008	2011	Saudi Society for Civil Engineering (SSCE)	Member	Member of the administrative board

Certifications and Professional Registrations

1. Certificate of Appreciation from the "President of King Abdulaziz University" for the Achievement of ABET ACADEMIC ACCREDETATION (2009).
2. Certificate of Appreciation from the "President of King Abdulaziz University" for the Achievement of ABET ACADEMIC ACCREDETATION (2015).
3. Certificate of Thanks & Appreciation from the "Director of the Saudi Building Code National committee" (2008).
4. Certificate of Thanks & Appreciation from the "Director of the Saudi Building Code National committee" (2018).
5. Certificate of Thanks & Appreciation from the "Coordinator-General and Executive Director of the Conference "for active participation in scientific arbitration for the Second Scientific Conference for students in higher education in the Kingdom (2009).

Current Membership in Professional Organizations

<i>Member Since</i>	<i>Rank</i>	<i>Society/organization</i>
2020	Member	Saudi Council OF Engineers, Saudi Arabia (SCE)
2004	Member	Saudi Society for Civil Engineering (SSCE)
1982	Member	American Concrete Institute, (ACI), U.S.A

Honors and Awards

1. Granted honorary membership of the Saudi Society of Civil Engineering in 2016.
2. Thanks and appreciation from the National Committee of Saudi Building Code in 2018.

Service activities (within and outside of the institution)

1. Academic advisor for students, over 10 years, Civil Eng. Dept., KAU, (2004-present).
2. Assistant of the CE Chairman for Academic affair (2004-2006).
3. Deputy supervisor for management of cultural relations, V.P. Development KAU, (2006 - 2007).

4. Vice Dean for Deanship of Students Affairs, KAU, (2007 – 2011).
5. Chairman of the Civil Engineering Department, KAU, (2011- 2015).
6. Member of several committees in Civil Engineering Department, KAU, (2015- present).

Principal Publications/Presentations from the Past Five Years

1. W. H. Khushefati, M. H. Swellam, and M. I. Alattar 'Recycling Granite and Marble Sludge as a Construction Material'. *International Journal of Current Research*, Vol. 7, Issue 08, pp.18982-18987, August 2015.
2. F. Karagol, Demirboga R., W. H. Khushafeti, 'Behavior of Fresh and Hardened Concretes with Antifreeze Admixtures in Deep-Freeze Low Temperatures and Exterior Winter Conditions'. *Construction and Building Materials* 76 (2015) 388-395.
3. Polat R., Demirboga R., W. H. Khushafeti. 'Effects of nano and micro size of CaO and MgO, nano-clay and expanded perlite aggregate on the autogenous shrinkage of mortar'. *Construction and Building Materials* 81 (2015) 268-275.
4. Sharmarke Abdi Omar, Ramazan Demirboga , Waleed H. Khushafeti. 'Relationship between compressive strength and UPV for GGBFS based geopolymer mortars exposed to elevated temperatures'. *Construction and Building Materials* 94 (2015) 189-195.
5. Sharmarke Abdi Omar, Ramazan Demirboga , Waleed H. Khushafeti. 'GGBFS based geopolymer mortars immersed in Sodium and Magnesium Sulfate Solutions and Sea Water'. *Int. Journal of Engineering Research & Technology (IJERT)*, Vol. 4, Issue 02, February 2015.
6. Rafiei, M.H., Khushefati, W.H., Demirboga, R., and Adeli, H., 'Neural Network, Machine Learning, and Evolutionary Approaches for Concrete Material Characterization', *ACI Materials Journal*, November - December (2016), Vol. 113, No. 05, Pp. 781-789.
7. Rafiei, M.H., Khushefati, W.H., Demirboga, R., and Adeli, H., 'Novel Approach for Concrete Mix Design Using Neural Dynamics Model and the Virtual Lab Concept', *ACI Materials Journal*, January - February (2017), Vol. 114, No. 01, Pp. 117-127.
8. Rafiei, M.H., Khushefati, W.H., Demirboga, R., and Adeli, H., 'Supervised Deep Restricted Boltzmann Machine for Estimation of Concrete Compressive Strength', *ACI Materials Journal*, March – April (2017), Vol. 114, No. 02, Pp. 237-244.
9. Traad M Al-zharani; Ramazan Demirboga; Waleed Hassan Khushefati, Osman Taylan 'Measurement and prediction of correction factors for very high core compressive strength by using the adaptive neuro-fuzzy techniques'. *Construction and Building Materials* 122 (2016) 320-331.
10. Hussam H. Hajjar; Mahomud A. Taha; and Waleed H. Khushefati. 'Fuzzy Model to Predict Amount of Delay in the Construction of Public Universities Projects'. *International Journal of Current Research*, Vol. 8, Issue 04, pp 29389- 29397, April 2016.
11. Traad M Al-zharani; Ramazan Demirboga; and Waleed H. Khushefati. 'Relationship Between Core Compressive Strength and UPV Values for Different Core Slenderness of High Strength Concrete Beam'. 3rd International Balkans Conference on Challenges of Civil Engineering, 3-BCCCE, 19-21 May 2016, Epoka University, Tirana, Albania.
12. M.A. Gharib, W.H. Khushefati, M.A. Khedr, and E.Y. Sayed-Ahmed. 'Performance of steel beams strengthened with prestressed CFRP laminate'. *Electronic Journal of Structural Engineering*, 15 (1), pp 60-69, 2015.

13. M.A. Gharib, W.H. Khushefati, M.A. Khedr, and E.Y. Sayed-Ahmed. "Steel beams strengthened with prestressed CFRP laminate: is there a need for laminate prestressing? Electronic Journal of Structural Engineering, 16 (1), pp 53-62, 2016.
14. A. Seiphoori, L. Laloui, A. Ferrari, M. Hassan, W.H. Khushefati. "Water retention and swelling behaviour of granular bentonites for application in Geosynthetic Clay Liner (GCL) systems". Soils and Foundations, Vol. 56, Issue 03, pp 449-459, June 2016.

Recent Professional Development Activities

1. Presented three workshops in Riyadh, Jeddah and Dhahran, "How to benefit from using Saudi Existing Building Code SBC 901", sponsored by Saudi Building Code National Committee, from 2108-2109.
2. Attended a workshop in "Fundamentals of E - Learning Management System – Black Board", in 02-2109.
3. Supervised a seminar, presented by Dr. Muhammed Suliman (IIT Bombay) to CE students and faculties on "Recent Development on Concrete Materials", 09-2109.