Academic Curriculum Vitae

Personal Information:

Full Name: Dillshad Khidhir Hamad Amen
Academic Title: Asst. Professor
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Mobile: 07504486419

Education:

Degree	University	Faculty	Department	Professional	Date
Ph.D	Baghdad	Engineering	Civil	Construction Material	March /2002
M.Sc	Baghdad	Engineering	Civil	Construction material	June / 1995
B.Sc	Salahaddin	Engineering	Civil	Civil Engineering	July / 1989

Employment:

Dates	Position	Location	College & department
1989 to 1992	Site Engineer as a military service in Iraq	Supervising building construction in the Projects	
1992 to 1995	M.Sc Student	University of Baghdad	College of Engineering Civil Department
1995 to 1997	Asst Lecturer	University of Salahaddin	College of Engineering Civil Department
1997 to 2001	PhD Student	University of Baghdad	College of Engineering Civil Department
1997 to 2001	Asst Lecturer	University of Salahaddin	College of Engineering Civil Department
2002 to 2004	Lecturer	University of Salahaddin	College of Engineering Civil Department

2004 to 2006	Lecturer and Head of Department	University of Salahaddin	College of Engineering Software Engineering department
2006 to 2011	Lecturer	University of Salahaddin	College of Engineering Civil Department
2011 to date	Asst. Professor	University of Salahaddin	College of Engineering Civil Department

Qualifications

Teaching qualifications	-
IT qualifications	- MS. Office , Matlab , Mathcad , ATINA
Language qualifications such as TOEFL, IELTS or any equivalent	-
Any professional qualification	-
You could put any professional courses you have attended	Structural dynamic, structural materials, Advanced steel and concrete composite , Advanced reinforced concrete, Plastic Analysis , Design of Low carbon buildings, Finite Element analysis
-	-

Teaching experience:

Concrete Technology	Undergraduate
Construction Materials	Undergraduate
Foundation Math	Undergraduate
Calculus -I	Undergraduate
Engineering Analysis	Undergraduate
Concrete Construction Engineering	Undergraduate
Civil Drawing	Undergraduate
Composite Materials (Fiber cement and Concrete	Postgraduate
Ferrocement and laminated composites	Postgraduate
Structural Materials	Postgraduate
Numerical methods by Matlab	Postgraduate

Research and publications

1. Performance of Slag-Pumice-Based Alkali-Activated Mortar at Ambient Environment

AO Mawlod, **DKHA Bzeni,** R Alzeebaree
Iranian Journal of Science and Technology, Transactions of Civil Engineering, 2023

2. Bond strength evaluation of polymer modified cement mortar incorporated with polypropylene fibers
PI Abdulrahman, DK Bzeni
Case Studies in Construction Materials 17, e01387, 2022
3. Bond strength of deformed steel bars embedded in geopolymer concrete
BO Mawlood, AH Mohammad, DK Bzeni
ADVANCES IN CONCRETE CONSTRUCTION 14 (5), 331-339, 2022
4. Durability and fire-resistance performance of slag-based geopolymer composites
AO Mawlod, DKHA Bzeni
Proceedings of the Institution of Civil Engineers-Engineering Sustainability, 2022
5. Mechanical properties and load deflection relationship of polypropylene fiber reinforced self-compacting lightweight concrete
D Altalabani, DKH Bzeni, S Linsel
Construction and Building Materials 252, 119084. 2020
6. Rheological properties and strength of polypropylene fiber-reinforced self-compacting lightweight concrete produced with ground limestone
D Altalabani, S Linsel, DKH Bzeni
Arabian Journal for Science and Engineering 45 (5), 4171-4185, 2020
7. Properties of slag-based geopolymer pervious concrete for ambient curing condition
O Arioz, DKH Bzeni, RRA Zangy, E Arioz
IOP Conference Series: Materials Science and Engineering 737 (1), 012068, 2020
8. Fiber reinforced self-compacting lightweight concrete for the manufacture of floating structures
D Altalabani, S Linsel, DKH Bzeni
ZANCO Journal of Pure and Applied Sciences 31 (s3), 204-209, 2019
9. An Experimental Investigation into the factors affecting strength and flowability of geopolymer binder
AS Jamal, DKH Bzeni, T Noguchi
Zanco Journal of Pure and Applied Sciences 31 (s3), 430-436, 2019
10. Size and shape effects of testing specimens on the compressive strength of SCC
SAY Dillshad K.H. Amen, Mohammad a. Ihsan
ZANCO Journal of Pure and Applied Sciences 30 (1), 65-72, 2018
11. Effects of curing types on the strength of high Strength self-compacting concrete
MAI Dillshad K.H. Amen1 Sinan A. yaseen1
ZANCO Journal of Pure and Applied Sciences 29, 22-29, 2017
12. Strength estimation of concrete produced in kurdistan region using combined method
DA Jaf, DK Bzeni, YZ Dinkha
ZANCO J. Pure Applied Sci 28 (2), 2016
13. Comparative Analysis of the Rebound Hammer and Ultrasonic Pulse Velocity in Testing Concrete with Multi-Variation Equation
R Abdulmajeed, N Hasan, D Amen
International Review 7 (6), 196-200, 2016
14. Deflection hardening behaviour of jute strands reinforced lightweight cementitious composite
KM Sadiq, DKH Bzeni, FUA Shaikh
Construction and Building Materials 96, 102-111, 2015
15. Estimating strength of SCC using non-destructive combined method
DKH Bzeni, MA Ihsan
3rd International Conference on Sustainable Construction Materials and, 2013

16. Porosity, pore size distribution and permeability evaluation of porous concrete using image analysis
    DKHA Bzeni, R Rasheed, AH Mohammad
    Concrete Structures for Sustainable Community-FIB symposium Stockholm -2012 …

17. Degree of hydration and strength development of low water-to-cement ratios in silica fume cement system
    DKH Amen, 2011
    International Journal of Civil and Environment Engineering 11 (5), 10-16
18. Study shrinkage behavior of SFRC restrained members exposed to hot climate
    DKH Amen, T Noguchi, 2009
19. Prediction model for shrinkage-time relation of concrete under variable ambient conditions
    DKH Amen, RS Al-Rawi, 2006
    International RILEM Workshop on Performance Based Evaluation and Indicators …
20. Prediction Model for the Final Shrinkage of Concrete Using Artificial Neural Network
    DKH Amen, RS Al-Lashi, RS Al-Rawi, 2006

Conferences and courses attended

Conference	Location	Date	Presented
CONCREPE8	Japan-Kashikojima	2008	Study shrinkage behavior of SFRC restrained members exposed to hot climate
Concrete Structures for Sustainable community	Sweden-Stockholm	2012	Porosity, pore size distribution and permeability evaluation of porous concrete using image analysis
Computer and Industrial Engineering	Turkey-Istanbul	2005	Development of a Graphical and Statistical Model for the Ultimate Shrinkage of Concrete

Funding and academic awards

1. **Certificate of completion from Matsumae International Foundation for a period of 6 month as a researcher in the university of Tokyo-Architectural department -Building Material Engineering Lab, July 2006 to Jan. 2007**
2. **Awards from UUNISCO for making the research in the university of Salahaddin-College of engineering, 2005**
3. **Master certificate, for participation in the World of Concrete- Certificate in Concrete Repair, held in Las Vegas-USA, 1-5/Feb/2010**
4. **Certificate of completion , Fiber reinforced concrete, Introduction, testing, design and application , Awarded by ACI e-learning**

Professional memberships

1. Iraqi Engineering Union and Kurdistan Engineering Union.
2. ACI (membership in American Concrete Institute-ACI Iraq Chapter

Professional Social Network Accounts:

ResearchGate	https://www.researchgate.net/profile/Dillshad-Bzeni
Linkidin	(30) Dillshad Hamad Amen | LinkedIn
Google Scholar	Dillshad K. H. Amen Bzeni - Google Scholar

Cover Letter

I'd like to be considered for a position as a researcher or lecturer in the field of concrete technology, and I hope to demonstrate how much I can contribute. My research and teaching interests are perfectly aligned with the criteria of this position and with current members of staff. I have substantial teaching experience in the civil engineering department at Salahaddin University, with the majority of it focusing on concrete materials, concrete construction, and concrete mix proportion. My work in the civil department closes the gap between concrete as a material and structural concrete, notably fiber reinforced concrete, by encouraging research and teaching collaborations.

Baghdad University's civil department awarded me a Ph.D. in 2002. "Development of models for shrinkage and shrinkage cracking of concrete with reference to hot weather" was the title of my dissertation. In it, I investigate how there are various models for predicting concrete shrinkage, yet most of these models cannot be applied in hot weather zones. Specifically, when the ambient temperature and humidity of the air surrounding the concrete are variable, I was able to create a new computer program using Matlab to find both moisture and temperature distribution across the section of concrete members with time m, which led to the exploration of moisture loss at each point of the section as a result of moisture movement from inside to outside of the concrete. and there evaporation would happens from the surface to the surrounding air. Moisture loss at each point caused shrinkage of concrete at this point, according to the shrinkage-moisture relationship previously determined from experimental work I have done for different concrete mix proportions, then differential shrinkage occurred internally, resulting in different types of stresses due to the restraining action of each part on the other. These stresses were compression for the internal regions of the concrete member and tension for the exterior boundaries. When the tension stress exceeds the tensile strengths of concrete, the section is

considered cracked, and the average shrinkage of these points is determined over time. Finally, a shrinkage model is developed to consider the boundary condition on the surface of concrete, which takes into consideration both temperature and humidity variation with time. The new shrinkage model was employed for end restrained concrete members, where additional parameters besides shrinkage, such as creep and tensile strain capacity of concrete, all contributed to the identification of a novel model for shrinkage cracking of concrete. My PhD was unique because I developed this program for the first time to take into account varied ambient conditions in a hot weather region of Baghdad in order to create a novel model for shrinkage and shrinkage cracking of concrete.

Actually, I'm interested in creating a model for concrete qualities and applying it for specific types of concrete. For example, I am interested in fiber reinforced concrete, in which the fibers can be blended with the concrete without the need for normal reinforcing steel, in order to create more sustainable construction works. And to explore the effect of fibers to control the cracks of concrete