

Upal Mohammad Towfiqul Quadir

Lecturer, Department of Civil and Environmental Engineering, North South University, Dhaka, Bangladesh.

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RESEARCH INTEREST

Development and evaluation of technologies in the general area of Structural and Material Engineering by utilizing techniques from lab experiments and modeling analysis.

ACADEMIC BACKGROUND

University of New South Wales, Sydney, Australia	2013
Master of Engineering Science in Structural Engineering	
Military Institute of Science and Technology, Dhaka, Bangladesh	2011
Bachelor of Science in Civil Engineering	
B. N. M. Rifles Public School and College, Pilkhana, Dhaka, Bangladesh.	2007
Higher School Certificate (H.S.C.), Dhaka Board	
B. N. M. Rifles Public School and College, Pilkhana, Dhaka, Bangladesh.	2005
Secondary School Certificate (S.S.C.), Dhaka Board	

EXPERIENCE

ACADEMIC EXPERIENCE

North South University, Dhaka	05/2015-Present
Department of Civil and Environmental Engineering	
<i>Lecturer from 01/2016, previously Lecturer (Part time)</i>	
International University of Business Agriculture and Technology, Dhaka	03/2015-12/2015
Department of Civil Engineering	
<i>Lecturer-I (3rd rank in seniority after Asst. Lecturer and Jr. Lecturer)</i>	
Military Institute of Science and Technology, Dhaka, Bangladesh	01/2014-02/2015
Department of Civil Engineering	
<i>Assistant Professor from 01/2015, previously Research Associate and Lecturer</i>	
Roy Morgan Research, Australia	04/2013-12/2013
<i>Research Interviewer/Assistant</i>	

INDUSTRIAL EXPERIENCE

Lion Group Ltd, Dhaka, Bangladesh <i>Civil Engineering Adviser</i>	10/2012-02/2013
Buildtrade Engineering Ltd, Dhaka, Bangladesh <i>Structural Design Engineer</i>	01/2012-09/2012
Nagar Homes Ltd, Dhaka, Bangladesh <i>Intern Engineer</i>	11/2010-12/2010
Dhaka City Corporation, Dhaka, Bangladesh <i>Intern Surveyor</i>	01/2011-02/2011
Army Golf Club, Dhaka, Bangladesh <i>Intern Surveyor</i>	11/2009-12/2009

PUBLICATION

Book-

1. Quadir, M. A. and **Quadir, U. M. T.**, Easy Engineering for Appealing House (সুন্দর বাড়ির সহজ প্রকৌশল), A book on basic civil engineering and building construction, Samay Publication, 1st February, 2015, Dhaka, Bangladesh. (ISBN 984-458-437)

Refereed Journal Publication-

2. **Quadir, U. M. T.**, A Reliable Method of Pile Load Test on Cast-In-Situ Pile Group of Existing Building for Retrofitting, Journal of Civil Engineering and Architecture (JCEA), Volume 8, No. 7 (Serial No. 80), pp. 881-887, July, 2014, USA. (ISSN 1934-7359 (Print), ISSN 1934-7367 (Online)).

Conference Proceedings-

3. **Quadir, U. M. T.**, Islam, K., Billah, A. H. M. M., Alam, M. S., Flexural Response of Concrete prepared with Recycled Granulated Steel as Partial Replacement of Natural Fine Aggregate, submitted in First International Conference on Advances in Civil Infrastructure and Construction Materials (CICM-2015), 14-15th December, Dhaka, Bangladesh.
4. **Quadir, U. M. T.**, Pramanik, A., Islam, K., Alam, M. S., Muniruzzaman, S. M., Durability of concrete containing Recycled Granulated Steel as Partial Replacement of Natural Fine Aggregate,

submitted in First International Conference on Advances in Civil Infrastructure and Construction Materials (CICM-2015), 14-15th December, Dhaka, Bangladesh.

5. **Quadir, U .M. T.**, Chowdhury, I., Islam, M. M., Billah, A. H. M. M., Islam, K., Mechanical Behaviour of Concrete prepared with Saw Dust as Partial Replacement of Natural Fine Aggregate, submitted in First International Conference on Advances in Civil Infrastructure and Construction Materials (CICM-2015), 14-15th December, Dhaka, Bangladesh.
6. **Quadir, U. M. T.**, Murtuz, A. K. M. G., Islam, K., Muniruzzaman, S. M., and Khandaker, N. R. (2014), “Mechanical Behavior of Concrete using Recycled Granulated Steel”, Proceedings of the 1st IUT International Seminar on Sustainability, Recycling, and Durability of Concrete, December 8, 2014, Dhaka, Bangladesh.
7. **Quadir, U. M. T.**, Murtuz, A. K. M. G., Islam, K., Muniruzzaman, S. M., and Khandaker, N. R. (2014), “Structural Adaptation to Climate Change using Recycled Granulated Steel as an Admixture to the Concrete”, Proceedings of the 1st Regional Seminar on Climate Change, Water Security and Prospects of Rain Water in Bangladesh, August 27, 2014, Dhaka, Bangladesh. (*ISBN: 978-984-33-8035-7*).
8. **Quadir, U. M. T.**, Noor., A., Patwary, N., Rashid, M., and Amin, A. F. M. S., Residual Strength of Concrete after Heat Episodes, Proceedings of WASET International Conference on Architectural and Civil Engineering, 26-27th September 2013, Rome, Italy.(*ISSN 2010-376X (Print), ISSN 2010-3778 (Online)*).

Technical Report-

9. Khandaker, N. R. and **Quadir, U. M. T.**, Rules of Engagement: A guide for Canadian Fashion Industries Engagement Strategy with Bangladesh Clothing Manufacturers to Save Lives, Civil Fest Technical Magazine, October 2015, Department of Civil Engineering, North South University, Dhaka, Bangladesh. (*ISBN 978-0-99-36241-2-4*)

Submitted Journal Paper-

10. **Quadir, U. M. T.**, Islam, K., Billah, A. H. M. M., Alam, M. S., Mechanical and Durability Properties of Concrete using Recycled Granulated Steel, submitted in Construction and Building Materials, Elsevier.(*Manuscript Number CONBUILDMAT-D-16-00312*)

Submitted Conference Proceedings-

11. **Quadir, U. M. T.**, Islam, K., Billah, A. H. M. M., Alam, M. S., Mechanical Behaviour of Concrete using Recycled Granulated Steel as a Partial Replacement of Fine Aggregate, submitted in II International Conference on Concrete Sustainability - ICCS16, 13-15th June 2016, Madrid, Spain. (*ID-660*)
12. **Quadir, U. M. T.**, Islam, K., Billah, A. H. M. M., Alam, M. S., Sulphate Resistance of Concrete using Recycled Granulated Steel as a Partial Replacement of Fine Aggregate, submitted in II

International Conference on Concrete Sustainability - ICCS16, 13-15th June 2016, Madrid, Spain.
(ID-659)

AWARDS AND HONORS

- Scholarship for undergrad studies from Bangladesh Army.
- Stipend for excellence in Higher School Certificate exam from Ministry of Education, Bangladesh.
- Stipend for excellence in Secondary School Certificate exam from Ministry of Education, Bangladesh.

PROFESSIONAL AFFILIATIONS

Institute of Engineers, Bangladesh (IEB)	2012-Present
American Concrete Institute (ACI)	2015-Present
American Society of Civil Engineers (ASCE)	2015-Present

OTHER SKILLS

Computer Programs

- **Programming Languages:** C/C++, Matlab
- **Structural Design and Analysis Software:** ETABS, STAAD Pro, SAP 2000, SAFE, PROKON, RAPT, CSiCOL and GRASP.
- **Modeling Analysis Software:** ANSYS, ABAQUS
- **Drafting Software:** AutoCAD
- **Project Planning:** Primavera Project Planner, MS Project