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Dr. Md. Habibur Rahman Sobuz

Associate Professor

Research Area Structural and Material Engineering

Education

Ph.D. in Structural Engineering

The University of Adelaide, Australia (2012-2016)

Thesis Title: [The Manufacture and Compressive Ductility of Ultra-high Performance Fiber Reinforced Concrete](#)

M.Sc. in Structural Engineering

University Malaysia Sarawak, Malaysia (2009-2011)

Thesis Title: [Flexural and Time-dependent Deflection Behavior of Reinforced Concrete Beams Strengthened with CFRP Laminates](#)

B.Sc. in Civil Engineering

Khulna University of Engineering and Technology, Bangladesh (2002-2006)

Study on Salinity of Brick Manufactured by Conventional Technique and its Removal Process

HSC

Shahzadpur Govt. College, Bangladesh (2001) Group: Science,

SSC

Shahzadpur Pilot High School, Bangladesh (1999) Group: Science,

Service Records

- **Structural Design Engineer**
The Civil and Structures From 01-01-1970 to 01-01-1970
Working Area: Structural Engineering
- **Structural Design Engineer**
Tarique Hasan and Associate Limited From 01-01-1970 to 01-01-1970
Working Area: Structural Engineering
- **Research Assistantships**
Department/Section: Civil Engineering
University Malaysia Sarawak From 01-01-1970 to 01-01-1970
Working Area: Structural Engineering
- **Teaching Assistanship**
Department/Section: School of Civil, Environment and Mining Engineering
The University of Adelaide From 01-01-1970 to 01-01-1970
Working Area: Civil Engineering
- **Research Fellow**
Department/Section: School of Civil, Environment and Mining Engineering
The University of Adelaide From 01-01-1970 to 01-01-1970
Working Area: Structural Engineering
- **Assistant Professor**
Department/Section: Building Engineering and Construction Management
Khulna University of Engineering and Technology From 01-01-1970 to 01-01-1970
Working Area: Structural Engineering

Research Interest

Structural and Material Engineering

- Time dependent behavior of reinforced concrete structures and strengthening with FRP
- Reinforced concrete structures' flexural and strength and ductility behavior
- Retrofitting of reinforced concrete using fibre reinforced polymer (FRP) materials
- New generation ultra-high performance fiber reinforced concrete (UHPRC)
- Development of ultra-high performance self-consolidating concrete (SCC)
- Concrete sustainability, concrete durability and concrete materials
- Recycling of low cost light weight aggregate concrete
- Sustainable concrete production from waste materials

Publication

Books

1. Ahmed,E. and Zin,H. R. S. a. B. F. (2011) , **Time-Dependent Deflection of Palm Shell Aggregate RC Beams** , ISBN:978-3-8443-9595-2,Lap Lambert Academic Publishing GmbH & Co. KG, Heinrich-Bäcking-Straße 6, 66121 Saarbrücken, Germany

Journals

25. Hasan,M. J. R. M. R. ,Sobuz,M. H. R. and (2020),V. W. Y. T.) , " Impact assessment of window to wall ratio on energy consumption of an office building of subtropical monsoon climatic country Bangladesh," **International Journal of Construction Management**, Taylor & Francis, Published Online 24 August 2020
24. Rana,M. J. , Hasan,M. R. , Sobuz,M. H. R. and (2020),N. M. S.) , " Evaluation of passive design strategies to achieve NZEB in the corporate facilities: the context of Bangladeshi subtropical monsoon climate," **International Journal of Building Pathology and Adaptation (In press)**, Emerald Insight, Published Online 11 November 2020
23. Shohana,S. A. and (2020),M. I. H. a. M. H. S.) , " Experimental investigation on hardened properties of recycled coarse aggregate concrete," **Advances in Concrete Construction**, Techno Press, vol10, no.5, pp.369-379
22. , " Challenges to Implementing Lean Construction in the Construction Industry in Bangladesh," **Smart and Sustainable Built Environment**, Emerald Insight, vol9, no.2, pp.174-207
21. Saha,A. , Sobuz,H. R. , Hoque,M. I. and (2020),a. R. M.) , " Influence of Waste Glass Aggregates on the Rheological Properties of Self-Compacting Concrete (SCC)," **Australian Journal of Civil Engineering**, Taylor & Francis , vol18, no.2, pp.272-285
20. Hasan,N. M. S. , Visintin,P. , Oehlers,D. J. and (2019),T. B. a. M. H. R. S.) , " Time dependent deflection of RC beams allowing for partial interaction and non-linear shrinkage," **Materials and Structures**, Springer Link, vol52, no.52
19. Sobuz,H. R. , Visintin,P. , Ali,M. , Singh,M. and Sheikh,M. G. a. A. H. (2016. (Impact factor = 2.29)) , " Manufacturing Ultra-high Performance Concrete Utilising Conventional Materials and Production Methods," **Construction and Building Materials**, Elsevier Ed., vol111, pp.251-261
18. Hasan,N. M. S. ,Sayed,M. S. and Ioannou,H. R. S. a. C. (2011) , " Effects of Non Sway and Sway Methods for Analysis and Design of RC Frames for Multi-Storied Building," **International Journal of Physical Science**, vol6, no.17, pp.4294-430
17. (2017) , " A Sustainable Approach of Demolition, Reconstruction, Reuses and Recycling construction materials in Bangladesh," **BAUET Journal** , Bangladesh Army University of Engineering and Technology , vol01, no.01, pp.83-90
16. Islam,M. S. , Hamdan,S. , Hassan,A. , Talib,Z. A. and Sobuz,H. R. (2014) , " The Chemical Modification of Tropical Wood Polymer Composites," **Journal of Composite Materials**, SAGE Publications and Published on behalf of American Society for Composites, vol48, no.7, pp.783-789
15. Islam,M. S. , Hamdan,S. , Sobuz,H. R. and Ahmed,M. R. R. a. A. S. (2013) , " Thermal and Decay-Resistance Properties of Tropical Wood Plastic Composites," **Journal of Composite Materials**, SAGE Publications and Published on behalf of American Society for Composites, vol47, no.12, pp.1493-1500
14. Sobuz,H. R. ,Hasan,N. M. S. and Islam,N. T. a. M. S. (2014) , " Structural Light-weight Concrete Production by using Oil Palm Shell (OPS)," **Journal of Materials**, Hindawi Publishing Corporation, vol2014, pp.1-6
13. Ahmed,E. and Lee,H. R. S. a. J. B. H. (2010) , " Flexural and Cracking Performance of Reinforced Concrete Beams Strengthened with Ferrocement Laminates," **ASEAN Journal on Science Engineering and Technology for Development (AJSTD)**, vol27, no.2, pp.51-60
12. Sutan,N. M. , Hamdan,S. , Sobuz,H. R. and Islam,V. L. a. L. a. M. S. (2011) , " Porosity and Strength of Pozzolan Modified Cement," **Concrete Research Letters**, vol2, no.4, pp.326-335
11. hasan,N. M. S. ,Sobuz,H. R. and Islam,M. S. S. a. M. S. (2012) , " The Use of Coconut Fiber in the Production of Structural Lightweight Concrete," **Journal of Applied Sciences**, Science Alert, vol12, no.9, pp.831-839
10. Hasan,N. M. S. , Sobuz,H. R. , Tamanna,N. and Islam,M. S. T. a. M. S. (2014) , " Properties of Concrete by using Bagasse Ash and Recycle Aggregate," **Concrete Research Letters**, vol5, no.2, pp.768-785
9. Hasan,N. M. S. ,Sobuz,H. R. and Auwalu,N. T. a. A. S. (2015) , " Investigation into the Sutability of Kenaf Fiber to Produce Structural Concrete," **Advanced Materials Letters**, VBRI Publishing, vol6, no.8, pp.731-737
7. (2011) , " Immediate and Time-Dependent Behavior of Carbon Fiber Reinforced Polymer (CFRP) Concrete Beams," **Key Engineering Materials**, Trans Tech Publications, vol471-472, pp.73-78
6. (2011) , " Flexural Performance of RC Beams Strengthened with Different Reinforcement Ratios of CFRP Laminates," **Key Engineering Materials**, Trans Tech Publications, vol471-472, pp.79-84
5. Uddin,M. A. , Hossain,J. , Sobuz,H. R. , Hasan,N. M. S. and Ullah,S. I. a. A. (2013) , " Experimental Study on Strength Gaining Characteristics of Concrete Using Portland Composite Cement," **Korean Society of Civil Engineering (KSCE)**, Springer, vol17, no.4, pp.789-796
4. Sobuz,H. R. , Oehlers,D. J. , Visintin,P. , Hoque,N. M. S. H. M. I. and Akid,a. A. S. M. (2017) , " Flow and Strength Characteristics of Ultra-high Performance Fiber Reinforced Concrete: Influence of Fiber Type and Volume-fraction," **Journal of Civil Engineering and Construction**, Tech Reviews Ltd, vol6, no.1, pp.15-21
3. (2011) , " Flexural and Time-Dependent Performance of Palm Shell Aggregate Concrete Beams," **Korean Society of Civil Engineering (KSCE)**, Springer, vol15, no.5, pp.859-865
2. Sobuz,H. R. , Ahmed,E. , Sutan,N. M. , Hasan,N. M. S. and Uddin,M. A. U. a. M. J. (2012) , " Bending and Time-dependent Responses of RC Beams Strengthened with Bonded Carbon Fiber Composite Laminates," **Construction and Building Materials**, Elsevier Ed., volVol. 29, pp.597-611

Conference

10. Sobuz,H. R. ,Ahmed,E. and Voon,N. M. S. H. a. L. Y. (13th - 16th June 2010) , "A Comparative Study of Time-Dependent Performance of RC Beams using Oil Palm Shell (OPS) and Normal Weight Aggregates (NWA)," **7th International Materials Technology Conference and Exhibition (IMTCE2010)**
9. Sobuz,H. R. and Voon,E. A. a. L. Y. (2nd - 5th August 2010) , "Performance of Oil Palm Shell (OPS) as a Replacement Coarse Material in the Structural Concrete Production," **Engineering Conference 2010 (EnCon2010)** , University Malaysia Sarawak
8. (1st - 2nd December 2010) , "Study on Long-term Deflections of RC Beams Strengthened with CFRP Subjected to Sustained Loading," **4th International Conference on Built Environment in Developing Countries (ICBEDC 2010)** , University Sains Malaysia
7. Sobuz,H. R. ,Islam,M. S. and Hasan,M. A. S. a. N. (13th - 16th June 2010) , "Clay Bricks Salinity Removal Process in the Production of Conventional Structural Bricks," **7th International Materials Technology Conference and Exhibition (IMTCE2010)**
6. Hasan,N. M. S. and Apac,H. R. S. a. G. J. M. (6th - 7th December 2011) , "High Performance Concrete Made with Steel and Polypropylene Fibres Concrete," **5th International Conference on Built Environment in Developing Countries (ICBEDC 2011)** , University Sains Malaysia
5. (14th - 15th April 2010) , "Time-dependent Deflection and De-bonding Behavior of Reinforced Concrete Beams Strengthening with FRP Laminates," **Engineering Conference 2010 (EnCon 2010)** , University Malaysia Sarawak
4. (2nd - 5th August 2010) , "An Analytical Investigation on Deflection Performance of RC Beams Strengthened with CFRP Sheets," **World Engineering Congress 2010, Conference on Engineering and Technology Education** , pp.pp. 92-97

3. Ahmed,E. and Voon,H. R. S. a. L. Y. (2nd - 5th August 2010) , "Deflection of Oil Palm Shell (OPS) Aggregate Concrete Beams Under Sustained Loading," **World Engineering Congress 2010** , pp.pp.160-165
2. Sobuz,H. R. and Hasan,E. A. a. N. M. S. (21-23 November 2011) , "Effectiveness of CFRP Composites Laminates in Long-term Deformations Performance of RC Beams," **3rd Regional Symposium on Engineering and Technology**
1. (25-27 July 2011) , "Behavior of CFRP Strengthened Creep and Shrinkage Deformations of RC Beams under Sustained Loads," **ASEAN Australian Engineering Congress (AAEC)**