Curriculum Vitae

Name:AYSHA AKTER

:

Educational Background

PhD (Civil & Offshore Engineering) ,Heriot Watt University, United Kingdom. [2007-2011]. Thesis title: Modelling of Geobags for River Bank Protection

M. Eng. (Water Eng. & Management), Asian Institute of Technology, Thailand [2003 – 2005]. Thesis title: Modeling of Non-Point Source Pollution in the Mun River Basin, Thailand

M. Eng. (Civil & Environment, part time), Bangladesh Univ. of Eng. & Tech. (BUET) [2000 – 2003]. Thesis title: Water supply, Sanitation and Solid waste Management of selected slums in Dhaka City

B. Sc. Eng. (Civil), Khulna Univ. of Eng. & Tech. (KUET) [1995 – 2000]. Thesis title: Cost-effective analysis of concrete by using different types of coarse aggregates

Professional Experience

- 1. Head, Department of Civil and Water Resources Engineering, Chittagong University of Engineering and Technology (CUET), Chittagong, Bangladesh, (August 2017 to till date) [As an additional responsibility].
- 2. Chairman, Center for River, Harbor & Landslide Research, Chittagong University of Engineering and Technology (CUET), Chittagong, Bangladesh, (June 2015 to July 2017) [As an additional responsibility].
- 3. Professor, Department of Civil Engineering, Chittagong University of Engineering and Technology (CUET), Chittagong-4349, Bangladesh, (2016 to till date).
- 4. Associate Professor, Department of Civil Engineering, Chittagong University of Engineering and Technology (CUET), Chittagong-4349, Bangladesh, (2014 to 2016).
- 5. Assistant Professor, Department of Civil Engineering, Chittagong University of Engineering and Technology (CUET), Chittagong-4349, Bangladesh, (2007 -2014).
- 6. Lecturer, Department of Civil Engineering, CUET, (2005-2007).
- 7. Assistant Engineer, Integrated Food security Program (IFSP), Local Govt. Engineering Department (LGED), Bangladesh, (2001-2003).
- 8. Structural Design Engineer, Shahidullah and Associates Ltd., Dhaka, Bangladesh, (2000-2001).

Professional membership

1. Life fellow (F/11036), The Institution of Engineers, Bangladesh.

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2. Associate Member (ABCS/3249), Bangladesh Computer Society.

Scholarships

- :
- 1. James Watt scholarship for conducting *PhD* in Civil & Offshore Engineering, Heriot Watt University, UK.
- 2. Dutch scholarship for pursuing *Masters* in Water Engineering and Management, Asian Institute of Technology, Thailand.
- 3. Technical Board of Bangladesh scholarship to pursue *undergraduate study* in the Civil Engineering Department, Khulna University of Engineering & Technology, Bangladesh.

Research grants

4. Potentialities of Flow Restoration in Karnafuli-Halda River (FRKR). UGC-CUET Duration: **2017 – 2019.** [Ongoing]

:

- **3.** Modeling of Groundwater Lowering in Chittagong (MGLC). UGC. Duration: **2016 2017.** [Completed]
- 2. Predicting Non-Revenue Waters in a Distribution System (PNDS). UGC-CUET Duration: 2014 2015. [Completed]

1. Alam M. J., Ali M. H., **Akter A.** and Mullick R. A. Capacity development of higher education on Integrated Water Resource Management at CUET, NICHE-BGD-081; funded by the Netherlands Initiative for Capacity Development in Higher Education (NICHE) (2010 -2014.)

List of Publications :

(a) Journal Papers

1.5	
15.	Aysha A. and Tanim A. H. (2018). A modeling approach to establish environmental flow
	threshold in ungauged semidiurnal tidal river. Journal of Hydrology. 558 (2018) 442–459.
	https://doi.org/10.1016/j.jhydrol.2018.01.061.
14.	Akter A. and Mohit S. A. and Chowdhury M. A. H. (2017). Predicting Urban Storm
	Water-Logging for Chittagong City in Bangladesh. International Journal of Sustainable
	Built Environment. http://dx.doi.org/10.1016/j.ijsbe.2017.01.005
13.	Aysha A. and Tanim A. H. (2016). Estimating Urban Flood Hazard Zones using SWMM in
	Chittagong City, Technical Journal River Research Institute, Faridpur, Bangladesh, Vol.
	13, No. 01, ISSN 1606-9277; 87-101.
12.	Akter A. and Ahmed S. (2015). Potentiality of Rainwater Harvesting for an Urban
	Community in Bangladesh. Journal of Hydrology. 09/2015; 528, 84-
	93.doi:10.1016/j.jhydrol.2015.06.017 ISI Journal Impact Factor for 2014 :3.053
11.	Akter A. (2014) Analytical explanation of riverbank failure mechanisms. <i>Technical</i>
10	Journal, River Research Institute, 12(1), 80-91, Faridpur, Bangladesh, ISSN 1606-9277.
10.	Akter A., Pender G., Wright G., Crapper M. (2013). The performance of a geobag
	revetment, I: Quasi-physical modeling, ASCE's Journal of Hydraulic Engineering, DOI:
	10.1061/(ASCE)HY.1943-7900.0000735.
9.	Akter A., Crapper M., Pender G., Wright G., Wong W. S. (2013). The performance of a
	geobag revetment, II: Numerical modelling, ASCE's Journal of Hydraulic Engineering,
	DOI: 10.1061/(ASCE)HY.1943-7900.0000724
8.	Akter A. and Babel M. S. (2012). Hydrological modeling of the Mun River basin in
	Thailand. Journal of Hydrology, 452-453:232–246. DOI: 10.1016/j.jhydrol.2012.05.059
7.	Akter A. and Ali M. H. (2012). Environmental flow requirements assessment in the Halda
	River, Bangladesh. Hydrological Sciences Journal. DOI: 10.1080/02626667.2011.644242
6.	Akter A., Crapper M., Pender G., Wright G., Wong W. S. (2012). Modelling the failure

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	modes in geobag revetments. Water Science and Technology, 65(3): 418-425, DOI:
	10.2166/wst.2012.812
5.	Akter A., Pender G., Wright G., Crapper M. (2011). Predicting the hydrodynamic forces
	on geobag revetments. Journal of Flood Risk Management, 2011, DOI: 10.1111/j.1753-
	318X.2011.01117.x.
4.	Akter A., and Ali M. H., (2011). Arsenic Contamination in Groundwater and Its Proposed
	Remedial Measures. International Journal of Environmental Science and Technology 8(2),
	433-43.
3.	Ali M. H., Akter A., Uddin M. N., and Hasan A. K. M. Q. (2007). Impact of Karnafuli
	River Water on Human and Aquatic Lives. Journal of Civil & Environmental Engineering,
	ISSN: 1996-9066, Chittagong Univ. of Eng. & Technology, Bangladesh, 01(01): 42-51.
2.	Akter A. (2005). Sustainable water management: seeking it for urban slum dwellers in
	developing countries. Stamford Journal of Civil Engineering ISSN: 1997-0714,
	Bangladesh, 2(1): 25-32.
1.	Akter A. (2004). Integrated Water Resources Management: A Great Challenge to
	Bangladesh. Stamford Journal of Civil Engineering, ISSN: 1997-0714, Bangladesh,
	1(1):31-38.

(b) Conference Papers

28.	Aysha A. and Linkon B. (2018) A Review on Sediment Transport Models of Tidal
	Rivers. In Proceedings of the 1st National Conference on Water Resources Engineering
	(NCWRE-2018), 21-22 March, 2018, CUET, Chittagong, Bangladesh. (ISBN: 978-
	1981910410) pp. 128-132.
29.	Linkon B., Aysha A. and M. Misbah U. M. (2018). Interpolation Methods for Groundwater
	Lowering prediction. In proceedings of the 4th International Conference on Civil
	Engineering for Sustainable Development (ICCESD-2018), 9~11 February 2018, KUET,
	Khulna, Bangladesh, ISBN: 978-984-33-6373-2. pp. 203 - 204.
28.	Aysha A. and Tanim A. H. (2016). Drainage vulnerability analysis for a combined
	sewerage system using SWMM. In proceedings of the 3rd International Conference on
	Advances in Civil Engineering 2016 (ICACE 2016), WRE286, 3rd International
	Conference of Advances in Civil Engineering (ICACE-2016),21-23 December, 2016,,
	Cox's Bazar, Bangladesh, pp. 861-866
27.	Aysha A. and Tanim A. H. (2016). Modeling low flow thresholds of Halda-Karnafuli
	confluence in Bangladesh. Water Security and Climate Change (WSCC): Challenges
	and Opportunities in Asia Conference, Nov 29-Dec 01, 2016, Asian Institute of
	Technology, Thailand.
26.	Akter, A. and Tanim, A., H., (2015), Predicting Urban Floods through Tidal Flow
	Simulation, 1st National Conference of Earthquake and Disaster (NCEED-2015), 99-104.
25.	Tanim, A.H. and Akter, A. (2015) Modeling of storm induced water logging in the
	selected parts of Chittagong. International Conference on Recent Innovation in Civil
	Engineering for Sustainable Development(IICSD-2015). Department of Civil Engineering,
	DUET, Gazipur, Bangladesh. Paper ID: WRE-017.
24.	Mohit, S.A., Huq, M.A. and Akter, A. (2014) Prediction of water logging in Chittagong
	city using hydrological model. In proceedings of the 2nd International Conference on
	Advances in Civil Engineering 2014 (ICACE 2014), WRE061, 26 – 28 December 2014,
	CUET, Chittagong, Bangladesh, pp. 1151-1156.

23.	Mahmud, M. A. and Akter, A. (2014) Non-revenue waters prediction for Khulshi area in
	Chittagong city. In proceedings of the 2nd International Conference on Advances in Civil
	Engineering 2014 (ICACE 2014), WRE011, 26 – 28 December 2014, CUET, Chittagong,
	Bangladesh, pp. 1007-1013.
22.	Akter, A. (2014) Possibilities of successful coastal flexible revetment technology against
	riverbank failure. In proceedings of the 2nd International Conference on Civil
	Engineering for Sustainable Development (ICCESD-2014), 14~16 February 2014, KUET,
	Khulna, Bangladesh, ISBN: 978-984-33-6373-2. pp. 614 - 620.
21.	Das, R., Hossen, M. B. and Akter, A. (2014) Predicting Bankline Changes in the Karnafuli
	River Using ARCGIS. In proceedings of the 2nd International Conference on Civil
	Engineering for Sustainable Development (ICCESD-2014), 14~16 February 2014, KUET,
20	Khulna, Bangladesh, ISBN: 978-984-33-6373-2. pp. 551-557.
20.	Ahmed, S., Mohit, S. A. and Akter, A. (2014). A study on water logging reduction in
	Chittagong city. In proceedings of the 2nd International Conference on Civil Engineering
	for Sustainable Development (ICCESD-2014), 14~16 February 2014, KUET, Khulna,
10	Bangladesh, ISBN: 978-984-33-6373-2. pp. 400-406.
19.	Mahmud, M. A. and Akter, A. (2014) Predicting non revenue water through leakage detection in a distribution system. In <i>proceedings of the 2nd International Conference on</i>
	Civil Engineering for Sustainable Development (ICCESD-2014), 14~16 February 2014,
	<i>KUET, Khulna, Bangladesh, ISBN: 978-984-33-6373-2. pp. 145-151.</i>
18.	Akter, A., Islam, G. M. S., Hossain, S. and Haque, M. (2013). Cost Effective Treatment
10.	for Textile Wastewater. WasteSafe 2013 – 3rd International Conference on Solid Waste
	Management in the Developing Countries, Khulna, Bangladesh.ISBN 978-984-33-7045-7,
	PI.76 (1-5).
17.	Islam, G. M. S. and Akter, A. (2012). Rice Husk Ash as a Sustainable Construction
	Material for Bangladesh (Forthcoming). 1 st International Conference on Advances in Civil
	Engineering 2012 (ICACE 2012), ASEE 057, CUET, Chittagong, Bangladesh. ISSN:2306-
	059X.
16.	Akter, A., Islam, G. M. S. and Hoque, S. (2012). Hydrodynamic Performance Study of
	Geobags in Revetment. ICACE 2012, WRM029, 12 -14 December 2012, CUET,
	Bangladesh. ISSN:2306-059X
15.	
	Proceeding of the 1st seminar on Climate Change Impact and Adaption (CCIA-2012),
	DUET, Bangladesh.
14.	Khan, M. N. N., Haider, M. S. and Akter, A. (2012). Cost effective bank protection for
	Halda River. In International Conference on Civil Engineering for Sustainable
	Development (ICCESD-2012), Khulna University of Engineering & Technology (KUET),
12	Khulna, Bangladesh.
13.	Khan M. N., Haider M. S. and Akter A. (2012). Comparative laboratory study on
	hydraulic performances of sandbags and gabions. In International Conference on
	Environmental Technology & Construction Engineering for Sustainable Development
12.	(ICETCESD-2012), SUST ,Bangladesh. Islam, G. M. S., Islam, M. M., Akter A. and Islam, M. S. (2011). Green construction
12.	material – Bangladesh perspective. International Conference on Mechanical Engineering
	and Renewable Energy 2011 (ICMERE2011). Chittagong University of Eng. & Tech.
	(CUET), Bangladesh.
11.	Akter A., Pender G., Wright G. and Crapper M. (2011). Geobag for sustainable riverbank
	protection. International Conference on Mechanical Engineering and Renewable Energy
	2011 (ICMERE2011), Chittagong University of Engineering & Technology (CUET),
	Bangladesh.
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10.	Akter A., Crapper M., Pender G., Wright G. and Wong W. S. (2011). Failure modes
	observed in geobag revetment using EDEM. 12th IWA UK National Young Water
	Professionals Conference, Edinburgh, UK. pp 24-28.
9.	Akter A., Pender G., Wright G. and Crapper M. (2010). Modelling the hydrodynamic
	forces on geobag revetments using CES. First European Congress of the IAHR, Edinburgh,
	United Kingdom.
8.	Ali M. H., Akter A. and Harun S. (2010). Assessing the Halda River Flow in the Contexts
	of Flood and Fish Habitat, ID 235, 1 st IWA Malaysia young water professionals conference
	(IWAYWP2010), Kuala Lumpur, Malaysia.
7.	Akter A., Wright G., Crapper M. and Pender G. (2009). Failure Mechanisms in Geobag
	Structures. 4 th IASME/WSEAS International Conference on Water Resources, Hydraulics
	and Hydrology (WHH'09), Cambridge, United Kingdom, pp.: 25-30.
6.	Akter A. (2006). Impact of Existing Water Management on the Socio-Economic
	Development of Chandgaon in Chittagong, International Conference on Economic
	Incentives & Water Demand Management, pp: 96-101.
5.	Akter A. and Babel M. S. (2005). Water quality of Mun River, Thailand, 9 th International
	Conference on Environmental Science and Technology, Rhodes island, Greece, pp.: A44-
	A49.
4.	Akter A. and Babel M. S. (2005). Hydrologic Parameters And Land Use Reflection on
	Water Quality At Mun River, Thailand, First International Conference on Environmentally
	Sustainable Development – ESDev-2005, Abbottabad, Pakistan. pp. 1045-1053.
3.	Akter A. and Mamtaz R. (2004). Sustainable Development of Water Supply, Sanitation
	and Waste Management: A Challenge to Dhaka Urban Slum Dwellers in Bangladesh,
	Third International Symposium on New technologies for urban safety of mega cities in
	Asia, India, pp: 31-40.
2	Akter A. and Mamtaz R. (2004). Integration of Urban Facilities: A Great Sustainable
	Remedy to Urban Slum Dwellers in Dhaka (Bangladesh), 1 st KMITL International
	Conference on Integration of Science & Technology for Sustainable Development,
	Bangkok, Thailand, Vol. 1, pp. 183-186.
1	Mamtaz R. and Akter A. (2004). Water Supply, Sanitation and Solid Waste Management
	Situation of Slums in Dhaka City, In Contemporary Environmental Challenges. (ISBN
	984-32-1665-2)
	pp. 147-163.

(c) Research Books

Akter A. and Ali M. H. (2008). Review on Arsenic Contamination in Groundwater of Bangladesh and Proposed Remedial Measures, *Modeling Techniques of Rainfall and River Flow and Groundwater Contamination*, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Chapter 3, pp. 39-61.

Peer Reviewing

- 1. River Research and Applications
- 2. Science of the Total Environment
- 3. Water Science and Technology
- 4. Proceedings of ICE Water Management