

Name: Mashfiqus Salehin
Current position: Professor and Director (since 31 Dec 2015)
Institute of Water and Flood Management (IWFM),
Bangladesh University of Engineering and Technology (BUET)
Year of birth: 1968
Nationality: Bangladeshi
Contact: Tel: +88 01937164753; E-mail: mashfiqussalehin@iwfm.buet.ac.bd
Education:
Ph.D., Northwestern University, Evanston, Illinois, USA (2004)
M.Sc. Engg. (Water Resources), BUET, Dhaka, Bangladesh (1998)
B.Sc. Engg. (Civil), BUET, Dhaka, Bangladesh (1993)

Employment Record

July 2010 – present: Professor, IWFM, BUET
June 2007- July 2010: Associate Professor, IWFM, BUET
June 1998-June 2007: Assistant Professor, IWFM, BUET
June 1994 -1998 June: Lecturer, IWFM, BUET

Teaching

At BUET, Professor Salehin teaches postgraduate courses on Groundwater Resource Assessment, Hydrogeology and Groundwater, Environmental Analysis, Integrated Water Resources Management, and Interdisciplinary Field Research Methodology in Water Management. Besides, as Part-time Faculty he also teaches 'Groundwater Engineering' at undergraduate level at Islamic University of Technology (IUT), Gazipur, Floodplain Systems at post graduate level at Independent University, Bangladesh (IUB), and 'Integrated Flood Risk Management' at postgraduate level in the Department of Geography of Dhaka University.

Research

During his 22-year professional career, Professor Salehin has worked on both technical and interdisciplinary research topics. Professor Salehin's research activities have focused on a variety of issues, including grid-based hydrologic modeling of water resources at regional and national levels, hydrodynamics of solute transport between river and near surface groundwater (hyporheic zone), hydrogeologic analysis of coastal aquifers and saltwater intrusion, groundwater and seawater intrusion modelling, mechanisms of water-related natural disasters, flood hazard, vulnerability and risk analysis, and transboundary water management. He has developed grid-based hydrologic models for the Ganges-Brahmaputra-Meghna basins as well as finer scale national model for impact analysis of water resources management interventions.

Some of the on-going activities in current research projects include hydrogeologic mapping of regional aquifer systems and groundwater flow/transport modelling to assess aquifer responses to different climatic and anthropogenic stresses, environmental scenario generation, using grid-based hydrologic models for the Ganges-Brahmaputra-Meghna basins for generating inflows to the country under different climate change and upstream water resources interventions scenarios, and together with the use of fine scale national model analysing the impacts on flood hazards and water availability within the country with in-country interventions, revision of flood danger levels for important rivers, and preparing flood hazard, vulnerability and risk maps for different types of flooding in different hydrological zones (via 1D/2D flood flow simulation, flood damage assessments, etc. and extensive field investigations and community engagements).

Professor Salehin's research also includes application of interdisciplinary, socio-eco-technical approaches under the framework of integrated water resources management (IWRM) to analyzing and harmonizing different uses of water resources, assessing ecosystem services - poverty alleviation linkages, impact assessment of climatic and non-climatic drivers, integrated analysis of biophysical and socio-economic processes, and biophysical vulnerability of coastal hazards and implications to water and food security. Professor Salehin was the coordinator of IWFM's regional collaborative project titled 'Crossing Boundaries (CB) Project: Regional capacity

building on IWRM and gender and water in South Asia', and during the process received formal training on IWRM and Interdisciplinary Field Research Methodology in Water Management. He has acted as the main resource person of numerous training programmes on IWRM organized by BUET and other water sector institutions for water and environmental academicians of public and private universities, water professionals working in government and non-government organizations.

Besides, Professor Salehin has a major research interest in transboundary river water management issues, reflected in his involvement in a number of regional initiatives. One such principal initiative has been the "Transnational Policy Dialogue for Improved Water Governance of Brahmaputra River: Phase-I and II" project, in partnership with South Asian Consortium for Interdisciplinary Water Resources Studies (SaciWATERS)- India, and Indian Institute of Technology, Guwahati (IITG). Key objectives of the project included establishment of a regional knowledge base and network of actors to inform Brahmaputra-related dialogues (through a series of country level and bi-lateral meetings at multi-track mode); joint identification of issues critical to the management of the Brahmaputra river; development of a shared vision for co-management of the Brahmaputra River by outlining the priority areas and action plans/vision for future engagements. Prof. Salehin has acted as the resource person in several national and international events focused on transboundary water management.

Selected projects, including national and international collaboration

As PI: "REACH: Improving Water Security for the Poor", REACH is a seven-year, global programme of research (2015-2022) funded with UK aid from the UK government; led by Oxford University; Bangladesh Lead - IWFM, BUET, with University of Dhaka and icddr, b as research partners and UNICEF Bangladesh Strategic Partner. On-going

As PI: "Shifting Grounds: Institutional transformation, enhancing knowledge and capacity to manage groundwater security in peri-urban Ganges delta systems ", collaborative partners are IWFM-BUET, Delft University of Technology, SaciWATERS- India, Both ENDS, Jagrata Juba Shangha, The Researcher, funded by NWO-WOTRO, the Netherlands. On-going

As Co-PI: "Deltas, vulnerabilities and climate change: Migration and Adaptation (DECCMA)", under the CARIAA program of IDRC-Canada and DFID, On-going; Collaborative Partners are University of Southampton (UK Lead), IWFM-BUET (Bangladesh Lead), Jadavpur University (India Lead) and National Authority for Remote Sensing and Space Sciences (NARSS) (Egypt Lead), and University of Ghana (Ghana Lead). On-going

As Co-PI: "Assessing health, livelihoods, ecosystem services and poverty alleviation in populous deltas", under the Ecosystem Services for Poverty Alleviation (ESPA) programme funded by the UK Department for International Development (DFID), the Natural Environment Research Council (NERC) and the Economic and Social Research Council (ESRC). Collaborative partners are University of Southampton (UK Lead), IWFM-BUET (Bangladesh Lead), Jadavpur University (India Lead), Ongoing

As Co-I: "Developing Flash Flood Forecasting System for the Haor Region of Bangladesh (F-FLOOD) and Capacity Building & Knowledge Management", Funded by International Fund for Agricultural Development (IFAD), Ongoing

As Co-I: "Research on Disaster Prevention/Mitigation Measures against Floods and Storm Surges in Bangladesh", funded by JST-JICA Funded; Japanese Lead: DPRI, Kyoto University, Bangladesh Lead: IWFM, BUET. On-going

As PI: "Transnational Policy Dialogue for Improved Water Governance of Brahmaputra River: Phase-II ", collaborative partners are IWFM-BUET, South Asian Consortium for Interdisciplinary Water Resources Studies (SaciWATERS)- India, and Indian Institute of Technology, Guwahati (IITG), funded by Asia Foundation, New Delhi. Completed (2015)

As PI: "Transnational Policy Dialogue for Improved Water Governance of Brahmaputra River", collaborative partners are IWFM-BUET, South Asian Consortium for Interdisciplinary Water Resources

Studies (SaciWATERS)- India, and Indian Institute of Technology, Guwahati (IITG), funded by Asia Foundation, New Delhi. Completed (2014)

As Co-I: “Development of Flood Hazard and Risk Maps with Effect of Climate Change Scenario”, funded by Climate Change Trust Fund, Ministry of Environment and Forest, Government of the People’s Republic of Bangladesh. Completed (2015)

As PI: “Development of a Water Resources Model as a Decision Support Tool for National Water Management’, in collaboration with the Water Resources Planning Organization (WARPO) of the Ministry of Water Resources, 2010.

As PI: “Regional Implications of Water Resources Management Interventions in South Asia”, Report prepared for Action Aid, Bangladesh, 2007.

As PI: “Development of a Base Document in the Backdrop of Climate Change Impacts: Characterizing Country Settings”. Report prepared for the Climate Change Cell of DOE under the Comprehensive Disaster Management Programme (CDMP), 2007.

As Co-I: “Modalities for Environmental Assessment: Flood Loss Control in Bangladesh. in Integrating Environmental Considerations into economic policy Making Processes”, Vol. IV, pp. 5-84, ST/ESCAP/2003, United Nations, New York,1999. Available online at: <http://www.unescap.org/drpad/publication/integra/modalities/bangladesh/4bl000ct.htm>

As Co-I: “Topic 2: Mechanism of Flash Floods” under the Japan-Bangladesh Joint Study on Floods”, sponsored by Japan International Cooperation Agency (JICA). This was collaboration between mainly Kyoto Univeristy of Japan and IWFM, BUET, 1997.

As Co-I: "Flood Control in a Floodplain Country: Experiences with Bangladesh", Islamic Educational Scientific and Cultural Organization (ISESCO), Morocco, 1997.

Selected Postgraduate Research Supervision

PhD

- Potential effect of climate change on the groundwater recharge in shallow aquifers of Bangladesh (On-going)
- Physical and socio-economic drivers of change affecting the sustainability of groundwater resources in peri-urban areas under different climatic and non-climatic scenarios (On-going)
- Improving water security for the poor in the Barind area (On-going)

M.Sc.

- Relative influences of different physical factors on salinity intrusion in coastal aquifer in Bangladesh
- Comparison of aquifer vulnerability assessment methods: Application to southwest coastal region (On-going)
- Multi-scale assessment of risks to environmental hazards in coastal Bangladesh (On-going)
- Assessment of biophysical vulnerability of storm surge hazard and its implications for water and food security (completed)
- Assessing aquifer vulnerability to seawater intrusion in coastal southwest region in Bangladesh (completed)
- River-aquifer interaction in Little Jamuna river catchment in the northwest region of Bangladesh (completed)
- Participatory multi-criteria evaluation of alternative options for water supply in a cyclone prone area (completed)
- Simulation of water resources management scenarios in Dinajpur Sadar Upazila using WEAP model (completed)
- Assessment of ecological health status in selected haors with different degrees of interventions using fish indicators (completed)
- Water management of integrated rice-fish farming in inundated floodplains of Balajtala-Kalmdanga Subproject (completed)

- Change of Halda river flow due to different water control structures and its impact on Halda ecosystem (completed)
- Harmonising fisheries and agricultural water needs in the Halda river system ☐ Impact of land-use change on eco-hydrological characteristics of Arial Beel (completed)

PG Dip.

- Delineating suitable aquifers for agricultural and drinking water supply in southwest coastal area (completed)
- Salinity constraints to different water uses (completed)

Selected publications

Chanda, A., Mukhopadhyay, A., Ghosh, T., Akhand, A., Mondal, P., Ghosh, S., Mukherjee, S., Wolf, J., Lázár, A.N., Rahman, M.M. and **Salehin, M.** (2016). Blue Carbon Stock of the Bangladesh Sundarban Mangroves: What could Be the Scenario after a Century? *Wetlands*, pp.1-13. doi:10.1007/s13157-016-0819-7.

Nicholls, R.J., Hutton, C.W., Lázár, A.N., Allan, A., Adger, W.N., Adams, H., Wolf, J., Rahman, M. and **Salehin, M.** (2016). Integrated assessment of social and environmental sustainability dynamics in the Ganges-Brahmaputra-Meghna delta, Bangladesh. *Estuarine, Coastal and Shelf Science*, pp. 1-12. doi: 10.1016/j.ecss.2016.08.017.

Kabir, T., **Salehin, M.** and Kibria, M.G. (2016). “Impacts of Post-Disaster Slow Rehabilitation of A Coastal Polder on Coastal Livelihoods: A Case Study on Aila” Proceedings of the 3rd International Conference on Civil Engineering for Sustainable Development (ICCESD 2016), 12~14 February 2016, KUET, Khulna, Bangladesh (ISBN: 978-984-34-0265-3), pp 506-512.

Salehin, M., and Rahman, R. 2015. Interdisciplinary Education and Research for Integrated Water Resources Management: Experiences at IWFM, BUET. Submitted for publication in *Regional Environmental Change*, Springer.

Sikder, A.H.M.K., and **Salehin, M.** 2015. Multi-criteria decision making methods for rural water supply: a case study from Bangladesh. *Water Policy*, IWA Publishing, doi: 10.2166/wp.2015.111.

Whitehead, P.G., Barbour, E., Futter, M.N., Sarkar, S., Rodda, H., Caesar, J., Butterfield, D., Jin, L., Sinha, R, Nicholls, R., **Salehin, M.** 2015. Impacts of climate change and socio-economic scenarios on flow and water quality of the Ganges, Brahmaputra and Meghna (GBM) river systems: low flow and flood statistics. *Environ Sci Process Impacts*. 2015 Jun;17(6):1057-69. doi: 10.1039/c4em00619d. Epub 2015 Mar 4.

Clarke, D., Williams, S., Jahiruddin, M., Parks, K., **Salehin, M.** 2015. Projections of on-farm salinity in coastal Bangladesh. *Environ Sci Process Impacts*. 2015 Jun;17(6):1127-36. doi: 10.1039/c4em00682h. Epub 2015 Mar 19.

Hossain, M.S., Dearing, J.A., Rahman, M. and **Salehin, M.** 2015. The coevolution of ecosystem services and human wellbeing in the Bangladesh delta. *Regional Environmental Change*, Springer, doi: 10.1007/s10113-014-0748-z.

Kabir, T., **Salehin, M.**, and Kibria, G. (2015). Delineation of physical factors of cyclone aila and their implications for different vulnerable groups. Proceedings of the 5th International Conference on Water & Flood Management (ICWFM-2015), organized by IWFM, BUET, Dhaka.

Sikder, A.H.M.K., and **Salehin, M.** 2014. Participatory multi-criteria evaluation of alternative options for water supply in cyclone-prone areas of Bangladesh. *Journal of Water, Sanitation and Hygiene for Development*, IWA Publishing, doi: 10.2166/washdev.2014.094.

Mondal, M.S., **Salehin, M.** and Huq, H. 2014. Evaluation of Institutional Arrangements for Governance of Rivers Surrounding Dhaka City, In: *Water in a Globalizing World: State, Markets and Civil Society in South Asia*, V. Narain, C.G. Goodrich, J. Chourey and A. Prakash (eds.), 273-291, Routledge.

Baki, M.A.A.B., Bhuiyan, S.R., Hoque, M.M., **Salehin, M.**, Islam, A.S. and Islam, T. (2014): Digital elevation based flood hazard study with and without effect of climate change scenario in Sirajganj Sadar Upazila, Bangladesh, *International J. of Surface and Groundwater Management*, 1(1), 43-51. <http://basharesearch.com/IJSGWM/6010107.pdf>.

Nicholls, R.J., Hutton, C., Lázár, A.N., Rahman, M.M., **Salehin, M.**, and Ghosh, T. 2013. Understanding climate change and livelihoods in coastal Bangladesh, *International Association for Hydro-Environment Engineering and Research(Hydro Link)*, Special Issue: Sea Level Rise Adaptation Measures, pp40-42, No 2/ 2013.

Adams, H., Adger, W.N., Huq, H., Rahman, R., and **Salehin, M.** 2013. Transformations in land use in the southwest coastal zone of Bangladesh: Resilience and reversibility under environmental change. University of Oslo (2013) *Proceedings of Transformation in a Changing Climate*, 19-21 June 2013, Oslo, Norway.

Rahman, R., and **Salehin, M.** 2013. Flood Risk and Reduction Approaches in Bangladesh. In R. Shaw et al. (eds.) *Disaster Risk Reduction Approaches in Bangladesh*, Disaster Risk reduction, Doi: 10.1007/978-4-431-54252-0_4, Springer Japan.

Paul, S., Islam, A.K.M.S., **Salehin, M.**, Haque, A. (2013) Flow Pattern Analysis in Haor Areas Using Delft3D, *Proceedings of the 4th International Conference on Water and Flood Management (ICWFM 2013)*, 4-5 October 2013, Dhaka, Bangladesh, Vol. 1, pp 315-323.

Khanom, S., and **Salehin, M.** 2012. Salinity Constraints to Different Water Uses in Coastal Area: A Case Study. *Bangladesh Journal of Scientific Research*, 25(1): 33-41.

Salehin, M., Khan, M.S.A., Prakash, A., and Goodrich, C.G. 2011. Opportunities for Trans-boundary Water Sharing in The Ganges, The Brahmaputra, and The Meghna Basins. *India Infrastructure Report 2011: Water: Policy and Performance for Sustainable Development*, Infrastructure Development Finance Company (IDFC), Oxford University Press, India.

Stonedahl, S.H., Harvey, J.W., Worman, A., **Salehin, M.**, and Packman, A.I. 2010. A three dimensional spectral flow model for for hyporheic exchange spanning scales from ripples to meanders, *Water Resources Research*, American Geophysical Union (AGU), Vol. 46, W12539, doi:10.1029/2009WR008865, 2010.

Sikder, A.H.M.K., and **Salehin, M.** 2010. Participatory multi-criteria evaluation of alternative options for water supply in a cyclone prone area. *Proceedings of the Regional Conference on Appropriate Water Supply, Sanitation and Hygiene (WASH) Solutions for Informal Settlements and Marginalized Communities*, Katmandu, Nepal, held in May 19-21, 2010, Organized by Nepal Engineering College with Partnership of Imperial College, London, Preston University and DeLPHE.

Rahman, M.S., **Salehin, M.**, M. A. R Akanda, T. Farzana, P. K. Sarkar and S. K. Biswas. 2011. Evaluation of AquaCrop model for potato in Bangladesh. *Proceedings of Paper Meet- 11*, December 31, Engineers' vision towards development of sustainable food security in Bangladesh, Agricultural Engineering Division, The Institution of Engineers, Bangladesh (IEB), pp. 67-76.

Rahman, M. S., **Salehin, M.**, Akanda, M.A.R., Sarkar, P.K., and Haque, A.U. 2010. Evaluation of AquaCrop model for potato crop under full irrigation and water stress conditions in Bangladesh. *International workshop on improving farm management strategies through AquaCrop: Worldwide collection of case studies*, 8-9 October 2010, Yogyakarta, Indonesia, FAO, UN Water and ICID, pp. 17-26.

Rahman, M.S., and **Salehin, M.** 2009. Water management of integrated rice-fish farming in inundated floodplains: A case study. *Journal of Agricultural Engineering*, The Institution of Engineers, Bangladesh, Vol. 37/AE, December 2009.

Kafi, S.M.S., **Salehin, M.**, and Chowdhury, S.M.C. 2009. Assessment of impacts of flood control interventions on ecosystem of haors. *Proceedings of the 2nd International Conference on Water and Flood Management*, 15-17 March 2009, Organized by Institute of Water and Flood Management, BUET, in

collaboration with Department of Water Resources Engineering, BUET, WARPO, BWDB and LGED, pp.359-368.

Salehin, M., Haque, A., Rahman, M.R., Khan, M.S.A., and Bala, S.K. 2007. Hydrological Aspects of 2004 Floods in Bangladesh. *Journal of Hydrology and Meteorology*, Society of Hydrologists and Meteorologists, Nepal, Vol.4, Number 1, pp.33-44.

Salehin, M. 2006. Interaction between surface water and groundwater. *Proceedings of the International Workshop on water Saving Technologies*, February 22-24, 2006 (published in 2007), Amritsar, India, Organized by United States Educational Foundation in India, New Delhi, in collaboration with Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar.

Salehin, M., Packman, A.I., and Paradis, M. 2004. Hyporheic exchange with heterogeneous streambeds: Laboratory experiments and modeling. *Water Resources Research*, American Geophysical Union, Vol. 40, W11504, doi:10.1029/2003WR002567.

Packman, A.I., **Salehin, M.**, and Zaramella, M. 2004. Hyporheic exchange with gravel beds: Basic hydrodynamic interactions and bedform-induced advective flows. *Journal of Hydraulic Engineering*, ASCE, 130(7), 647-656.

Salehin, M., Packman, A.I., and Wörman, A. 2003. Comparison of hyporheic exchange in vegetated and unvegetated reaches of a small agricultural stream in Sweden: Seasonal variation and anthropogenic manipulation. *Advances in Water Resources*, 26(9): 951-964.

Packman, A.I., and **Salehin, M.** 2003. Relative roles of stream flow and sedimentary conditions in controlling hyporheic exchange. *Hydrobiologia*, Vol.494, pp.291-297.

Salehin, M., Packman, A.I., and Wörman, A. 2003. Comparison of hyporheic exchange in vegetated and unvegetated reaches of a small agricultural stream in Sweden: Seasonal variation and anthropogenic manipulation. *Advances in Water Resources*, 26(9): 951-964.

Invited Speaker/ Resource Person in recent past

On IWRM

- Acted as the principal designer and facilitator of three South Asian Water (SAWA) Fellow Training Program on **IWRM and Interdisciplinary Field Research Methodology** in connection with the regional collaborative programme of IWFM, namely the Crossing Boundaries Project and the IDRC South Asian Water (SAWA) Fellowship Project; also was one of the key resource persons in the **ToT on IWRM** organized by SasiWATERS and BUET in 2011, which resulted in a training module on IWRM.
- Lecture on **“IWRM Concept and Principles, and Demand Management and Water Allocation”**, at the ToT workshop organized by CEGIS in June 2014.
- Lecture on **“Integrated Water Resources Management (IWRM): Concepts and Principles”** at the Training of Trainers (ToT) for Water Management & Community Development (Phase-II), organized by Bangladesh Water Development Board, on 31 March 2014.
- Lecture on **‘IWRM concept and Principles’** in Training of Trainers (ToT) workshops organized by Center for Environmental and Geographic Information Services (CEGIS) in 2013, 2012, 2011, 2010 and 2009.
- Lecture on **“IWRM and Ground Water Management: Concepts, science, uncertainties, policy and practice”**, at the National Workshop on Ground Water Management in IWRM, organized by BCAS with support from CapNet Global, during 7-8 September 2013 in Dhaka.
- Two lectures on: (i) **Principle and concepts in IWRM**; and (ii) **IWRM Tools** in the Training of Trainers on **“IWRM concepts and principles: Capacity Strengthening of Water and Environmental Academicians of Public and Private Universities”**, held during 5-6 July 2010, organized by IWFM, BUET in association with BCAS and Cap-Net Global.

- Two lectures on: (i) **“Principles and Principles of IWRM”**, and (ii) **“Adaptation to Climate Change in Water Management: How can IWRM help?”** in the National Level Workshop on “Climate Change and Water Resources: IWRM as a tool to Cope with Changing Condition of the Climate System”, held during 20-24 June 2010, Dhaka, organized by Bangladesh Centre for Advanced Studies (BCAS), with support from CapNet Global.
- Lecture on **“Adaptation to Climate Change in Water Management: How can IWRM help?”** in the Regional Workshop on “Climate Change and Water Resources: IWRM as a tool to Cope with Changing Condition of the Climate System”, held during 10-14 January 2010, Dhaka, organized by Bangladesh Centre for Advanced Studies (BCAS), and Secretariat, CapNet South Asia with support from CapNet Global.
- Lecture series on **“The Conceptual Framework of IWRM”** in the six divisional districts of Bangladesh during the last quarter of 2007 as a part of BCAS’s programme on Capacity Development in Integrated Water Resources Management (IWRM), in connection with BCAS’s activities under the International Foundation for Science (IFS) of Sweden and the CapNET.

On Transboundary Water Management

- Lecture on **“Trans-boundary Water Issues: Its Impact on Flood Management”** at the SAARC Training Programme on River Erosion & Embankment Safety Management in South Asia Region, March 29 – April 4, 2014, Organized by SAARC Disaster Management Centre, New Delhi and Disaster Research Training and Management Centre, University of Dhaka, Dhaka
- Lecture on **“Transboundary water context (issues & problems) with special reference to Ganges/Padma River”** at Strengthening Transparency and Access to Information on Transboundary Water Governance in South Asia, Organized by Bangladesh Centre for Advanced Studies (BCAS), on March 19 and April 16, 2014.
- Presentation as Panel Speaker on **“Integrating IWRM Concept in the Transboundary Water Management in GBM Basins”** in the Technical Workshop titled ‘Transboundary Data Sharing for Integrated Water Resources Management’ at the 2nd Asia Pacific Water Summit held during 16-20 May 2013 in Thailand.
- Presentation as Panel Speaker on **“Flood Management Versus Flood Control: Integrating IWRM Concept”**, at the Multi-stakeholder Consultation on ‘Sharing Responsibilities: Joint Discussions on Floods and Flood Management’, organized by IUCN, on 11 January 2013 in Guwahati, India.
- Presentation on **“Regional Initiatives of IWFM, BUET”** in the Technical Session on Regional Initiatives of the International Workshop on Transboundary Water Resource Knowledge Sharing, organized by IUCN under the Ecosystem for life: A Bangladesh-India Initiative Project, on 24 November 2011
- Presentation on **“Development and Management of Transboundary Water in the Ganges, the Brahmaputra and the Meghna Basins”** at the Regional Conference on Development and Management of River Basin: The Case of the Ganges- Brahmaputra-Meghna (GBM), organized by Bangladesh Institute of International & Strategic Studies In collaboration with the Regional Program SAARC of the Konrad-Adenauer-Stiftung (KAS), during 05-06 September 2012 in Dhaka.
- Key note paper titled **“Regional Implications of Water Resources Management Interventions in South Asia”** at the regional seminar on “Food Security and Water Issues in South Asia” organized by Bangladesh Unnayan Parishad (BUP) under the auspices of Imagine A New South Asia (INSA) on 11 June, 2008.

Others

- Lecture on **“Changing Jamuna”** at the Media Workshop on the Changing Jamuna and its effects on Livelihood, organized by BCAS on 16/17 May 2013.
- Lecture on **“Hydro-morphological Setting of Bangladesh”** at the training program on Analysis, Design and Construction of Bridges organized jointly by Japan International Cooperation Agency

(JICA) and Local Government Engineering Department (LGED) and held at LGED during 2 January 2010-17 February 2011.

- Lecture on “**Mechanism of Floods in Bangladesh**” in the short course on "Water and Flood Management for Journalists" held on March 27-29, 2006 jointly organized by Press Institute of Bangladesh (PIB) and IWFM, BUET.

Advanced Training

- 2006: Staff training on IWRM, organized by SaciWATERs and Post Graduate Institute of Agriculture (PGIA), University of Peradeniya, Sri Lanka
- 2006: Training on Interdisciplinary Field Research Methodology (in Wageningen, the Netherlands, and Alora, Spain), organized by the Irrigation and Water Engineering Group of Wageningen University
- 2005: APN CAPaBLE South Asia Regional Training Workshop on Watershed Modeling, organized by Global Change Impact Studies Centre and Pakistan Meteorological Department, Pakistan
- 1997: Counterpart Individual Training Program at Kyoto University, Japan, on ‘Mechanism of Flash Floods’, sponsored by Japan International Cooperation Agency (JICA)
- 1995: Counterpart Individual Training Program at Kyoto University, Japan, on ‘Rain Water Flow/Flood Analysis’, sponsored by JICA