

# CURRICULUM VITAE

Prof. Md. Sirajul Islam, *PhD*

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## Brief Resume

### Key Qualifications

Having extensive experience in teaching, research and consultancy services in higher educational institutes, research organizations and development agencies. Involved with UNFCCC and IPCC. Also having consultancy experience with the ADB, World Bank, UNDP, GIZ and DFID. Field of interest as climate change impact and adaptation, disaster risk management, climate risk screening, weather index based insurance, Hydrology and water resources, Environmental engineering and Management, Urban environmental management, etc.

### Academic and Research Experience

- Teaching at **North South University** since 2005 and held different academic leadership positions as Dean, SEPS; Chair, CEE; Chair, DESM; Faculty Advisor of *Earth Club*; Served at **SUST**, Sylhet, as Lecturer (Civil and Environmental Engineering) and Institute of Water and Flood Management (IWFM), BUET as a Researcher, 1995-1996.
- **Post-doctoral** researcher at Taikan Oki Laboratory, Hydrology and Water Resources Engineering, IIS, The University of Tokyo and worked on global water resources assessment projects including GWP.
- Research Fellow at the Adaptation, Technology and Science Division (ATS), United Nations Framework Convention on Climate Change (UNFCCC) secretariat, Bonn, Germany. Also involved with **IPCC**.
- Trained in Outcome Based Education (OBE) System and attended ABET symposium, USA. Member of a five-member committee on introducing OBE in the engineering education in Bangladesh by BAETE, Institution of Engineers Bangladesh (IEB) Chaired by Prof. Dr. Jamilur Reza Chowdhury.
- **YES (Youth Encounter on Sustainability)** summer course by **AGS (Alliance for Global Sustainability)**, 2002 an initiative by the MIT, USA; The University of Tokyo, Japan, Chalmers University, Sweden and ETH, Zurich.

### Consultancy and Professional affiliation

- Short time assignment to support government project as Team Leader, in-depth Monitoring and evaluation of the government project **Development of the Bangladesh Economic Zone (1<sup>st</sup> phase), Prime Minister's Office**, implemented by **IMED, Planning Commission** (January 2019 to April 2019). Major task: Monitoring and evaluation of Civil construction and overall project performance.
- **National Consultant, Asian Development Bank** (July'17– Sept'18): project TA-8572 REG: Action on Climate Change in South Asia. Contract No. 134538-S94459 Disaster Management/Multi-Hazard Specialist (46470-001). Development of a Climate and Disaster Risk Screening tool for the government development projects of Bangladesh, to be used by the Planning Commission. Spatial HEVR analysis for the entire country followed by development of a CRS/CRVA tool are the main tasks.
- **Consultant, World Bank:** Watershed Management and Biodiversity of Pablakhali Protected Area, as Engineering and Water Management Specialist, Strengthening Regional Co-operation for Wildlife Protection Project (SRCWP), World Bank, 2014-2017.
- **Consultant, Asian Development Bank** as Climate Change Specialist, June-August 2012: Contract No. 102072-A76308 SC 100424 BAN: Weather Index-Based Crop Insurance Project, in preparing project proposal on Introduction of Weather Index based Crop Insurance in Bangladesh.
- **Expert Reviewer, IPCC** (Intergovernmental Panel on Climate Change) for three special reports as SREX (Special Report on Managing the Risk of Extreme Events and Disaster) and SRREN (Special Report on Renewable Energy Sources and Climate Change Mitigation), 'Global warming of 1.5°C' and AR6.

- Awarded **UNFCCC Fellowship** at the UNFCCC Secretariat in Bonn, Germany, April-September, 2010. Worked on the topic Technology for Adaptation to Climate Change (in the water resources sector). Attended several UN Climate Change Conferences and presented in side event; got familiar with international negotiation on climate change water resources related events.
- Served as **Project Coordinator** of the project **Crop Insurance as a Risk Management Strategy for Bangladesh**, as part of the NAPA (National Adaptation Program of Action) by Climate Change Cell (CCC) of the Department of Environment (DoE), Bangladesh, supported by UNDP, DFID and EU; 2007-2009.
- **Consultant, World Bank**: Mid Term Evaluation of Community Climate Change Program (CCCP), PKSF and World Bank, 2015. Bangladesh.
- Served as **Project Director, GIZ-DESM** project on introducing a certificate program on ETP (Effluent Treatment Plant), 2011- 2013, supported by GIZ.
- Advisor of **CHANGE** (founder got British Queen's Young Leaders Award and listed in the Forbes 30 under 30 list for Asia: <http://www.change.org.bd/advisory-board/>), which truly contributes at the grassroots level for environmental development.

## Education

**Ph.D** THE UNIVERSITY OF TOKYO, TOKYO, JAPAN

(2003) Department of Urban Engineering, *Environmental Engineering Division*

Thesis Topic: **Integrated Assessment of Water Availability under Climatic Changes along the Tone River and Tokyo Metropolitan Area (TMA)**, Supervisor: **Prof. Hanaki. Kesuke (IPCC LA)**

**Masters** NATIONAL UNIVERSITY OF SINGAPORE (NUS), SINGAPORE

(2001) M. Engg. (Civil), **GPA : Highest grade (Excellent)** in all courses, no numeric grade assigned

*Hydraulics & Environmental Engineering Division*. Also completed 30 credit hrs./ ten courses for M. Engg. Program at the Department of Civil Engg., *Environmental Engg. Division*, Bangladesh University of Engineering & Technology (BUET)

**Bachelor** BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY (BUET), DHAKA, BANGLADESH

(1995) B.Sc. Engg. (Civil), **First Class, Specializing in Water Resources and Structural Engineering**

## Academic Awards

**Awarded UNFCC Fellowship at the BONN Secretariat March – September 2010**

**Awarded in the List of Who's Who in the World 2009-2010**

*Secondary School Certificate* : **Board Talent Pool Scholarship** (79% Marks), Comilla Education Board, 1986

*Higher Secondary Certificate* : **Board Scholarship** (87% marks), Dhaka College, Dhaka, 1988

*Bachelor level* : **University Technical Scholarship**, BUET, 1989-1995

*Masters level* : **Research Scholarship**, The National University of Singapore, Singapore; 1998-2000

*Ph.D* : **Monbu-gakusho Scholarship**, The University of Tokyo, Japan; 2000-2003

*Fellowship* : **UNCRD-BUET Joint Research Fellowship**, at the Institute of Water and Flood Management (IWFM), BUET under Prof. Jahiruddin Chowdhury; 1995-96

**JST Post-Doctoral Fellowship**, with Prof. Taikan Oki, The University of Tokyo, Japan; 2003-2004

## Work Experiences (active employment : 17 yrs.+)

**PRESENT JOB (12 yrs +): NORTH SOUTH UNIVERSITY**

**DIRECTOR, Center for Infrastructure Research and Services (CIRS): July'19-till to date**

**DEAN, SEPS : April 2015 - June 2017**

**CHAIR, CEED : May 2013 - March 2015**

**CHAIR, DESM : May 2011 - April 2013**

**Professor, CEE: APRIL 2015 till to date**

**Associate Professor, OCTOBER 2010 till to MARCH 2015**

**Assistant Professor, SEPTEMBER 2005 to SEPTEMBER 2010**

**Course taught:** Climate Change, Disaster management, Hydrology, Irrigation Engineering, Integrated Water Resources Planning and Management, Coastal Zone management, Environmental management and Introduction to Environmental Science.

**Served as Faculty Advisor, Earth Club,** an NSU Student club on Nature and Environment.

**UNFCCC FELLOWSHIP: APR'10 till SEPT' 2010:** At UNFCCC Secretariat, Bonn, Germany as a Fellow. Worked on the topic *Technology for Adaptation*, with specific concentration in the Water Resources Sector. UN fellowship program is aimed at enhancing capacity building of developing countries in Climate Negotiation and policy issues. Fellows are thus extensively trained through learning by doing with all those climate policy and negotiation matters.

**OCT'03 to SEP'05 (2 years)**

*Position:* **Post-Doctoral Fellow**, Oki & Kanae Laboratory, Hydrology and Water Resources Engineering Division, Institute of Industrial Science (IIS), The University of Tokyo, Japan on the topic **Global Water Resources Assessment under Future Climatic Change**. Supplementary topic: **Global Trading of Virtual Water : A grid based analysis**. Supervisor: Prof. taikan Oki (IPCC LA)

**SEP'97 to DEC'98 ( 1 year 3 months )**

*Position:* **Lecturer**, Department of Environmental Engineering and Pollution Control (Presently Department of Civil and Environmental Engg.), Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh

**JUL'96 to DEC'96 (6 months) :** Teaching Assistant (as an M. Sc. Engg. Student), Department of Civil Engineering (*Environmental Engg. Division*), **Bangladesh University of Engineering & Technology (BUET)**, Dhaka, Bangladesh.

**JUN'95 to MAY'96 ( 1 year )**

*Position* : **Research Fellow**, UNCRD-BUET Joint Research finding water supply source for Dhaka

*Employer* : **United Nation Center for Regional Development (UNCRD), Nagoya, Japan**

*Work place* : **Institute of Flood Control and Drainage Research (IFCDR)/Presently IWFM  
Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh**

**MAR'95 to MAY'95 ( 3 months ) :** Junior Design Engineer, Sthapati Sangshad Ltd. Dhaka, Bangladesh (a Civil Engineering consulting firm), Design and supervision of several Civil Engineering projects.

## **Conference, Workshop, Training and Short course**

### **CERTIFICATE COURSES AND TRAININGS**

1. Completion of certificate program in Fire Safety in Building and Industrial premises.
2. Conducting **Basic course on Greenhouse Gas Inventory** at Greenhouse Gas Institute (Managed by UNFCCC)
3. Successful completion of IRCA (International Register of Certificated Auditor) recognized **Lead Auditor Course on ISO 14000** (Environmental Management System)
4. Participated on the training course **Profitable Environmental Management (PREMA) and Chemical Management (CM)** from 15 February to 19 February 2009 offered by **GTZ-PROGRESS**, Dhaka, Bangladesh.
5. Participated in the International Seminar on **Regional issues and Priorities for Sustainable Development : An Asian Perspective**, April 10-16, 2005, Dheradun Institute of Technology (DIT), organized by ETH Sustainability, Swiss Federal Institute of Technology, Zurich, Switzerland and DIT, India.
6. Participated in Summer course of the **Youth Encounter on Susutainability (YES)**, offered by the **Summer Institute of the Alliance for Global Sustainability (AGS)**, 14-28 July 2001; Braunwald, Switzerland.

7. Training on **Water Supply & Waste Management**, December 9-11, 1997 at Shahjalal University of Science & Technology (SUST), Sylhet; conducted by **International Training Network (ITN) -Bangladesh**, supported by **World Bank**.
8. Successful completion of Short Course on **Water Treatment Technologies, Pollution Prevention & Environmental Management System**, May 8 to 12, 1997; offered by **Texas - Bangladesh Environmental Initiative (TBEI)**, jointly organized by Department Of Civil Engg. (Environmental Engg. Division), BUET and LBJ School of Public Affairs, University of Texas at Austin, USA

#### CONFERENCES, SYMPOSIUMS AND WORKSHOPS ATTENDED (*Partial/ selected ones mentioned only*)

1. SRMGI-BCAS workshop on the Science and Governance of Solar Radiation Management held on 27 February 2017 at Spectra Convention Center, Gulshan-1, Dhaka, Bangladesh.
2. Participated **ESW (Engineers for a Sustainable World)** International Meeting and Workshop, held at **UNESCO** Headquarter in Paris, France on 21-25 March, 2006.
3. Participated in **Young Scientists Summit** with the theme Climate Change and Cities, held in Bern, Switzerland on 20-25 November, 2005.
4. Presented research paper at oral session of the **American Geophysical Union (AGU) 2005 Joint Assembly**, 23-27 May, 2005, New Orleans, LA, USA.
5. Participation in International Symposium on **Global Governance of Water: Human Security and Water Resources**, 8 September 2004, **United Nations University (UNU)**, Tokyo, Japan.
6. Presented research paper at the oral session of the **2<sup>nd</sup> International Conference of the Asia Pacific Association of Hydrology and Water Resources (APHW)**, 5-9 July 2004, Singapore.
7. Presented research paper at the oral session of the **Third International Conference on Water Resources and Environment Research (ICWRER)**, 22 - 25 July, 2002; Dresden, Germany.
8. Participated in the International workshop on **Climate Variability, Climate Change and Water Resources Management**, 8-9 June, 2001, **United Nations University**, Tokyo, Japan.

#### **Computer Skill**

**Operating System :** Windows, Unix/Linux **Language :** Fortran, C/C++

**Software and Model:** ArcView/ArcMap: **GIS (Geographic Information System)** software, **GrADS** (Grid Analysis and Display System), **GMT** (Generic Mapping Tools): Extensively applied in Post-Doc level, **TRIP** (Total Runoff Integrating Pathways): global scale runoff model developed by Prof. Taikan Oki. Got familiar with few **Land Surface Models** like : SiB2 and Bucket Model. Used **GCM output** and after **Statistical downscaling** input the climatic parameter into a catchment scale hydrological model and observe changes under future conditions. Get used with several water balance, river flow simulation and water quality models applicable in Water Resources, Climate Change, Land-use Change Assessment and Environmental Engineering.

#### **Professional Affiliation and Outreach**

1. IPCC: Expert Reviewer, IPCC (SREX, SRREN, 'Global warming of 1.5°C', AR6)
2. Presently serving as a **Reviewer** of a number of International Journals (selected onea mentioned):  
*Water International*, by *International Water Resources Association (IWRA)*; *African Journal of Environmental Science & Technology (AJEST)*; *International Journal of Ecology and Development (IJED)*, *Journal of Flood Engineering, JWARP, JECE*
3. Membership: Fellow, Institution of Engineers Bangladesh (IEB);  
Others membership: AWRA, APHWA, BES

4. BSES: Secretary, Bangladesh Society and Environmental Scientist (BSES); A national level professional society.
5. Joint Secretary, OPPA (Organization for population and Poverty Alleviation), an NGO
6. Executive Member, South Asian Institute of Advanced Studies (SIAS).
7. Advisor, CHANGE, a community organization (NGO).
8. Member, Executive Committee, Actual Basis for Community Development (ABCD), an NGO
9. Life member, Transparency International Bangladesh (TIB)

## **Publications**

### **BOOK: BOOK CHAPTER/CONTRIBUTOR**

Islam, Md. Sirajuland Khan, Mizan R (2017) **The Challenges of Climate Change to SDG: The case of Bangladesh**, in the book *Towards Sustainable Development: Lessons From MDGs & Pathway for SDGs*, edited by Munir Khasru, IPAG, Dhaka, Bangladesh.

Md. Sirajul Islam (2014) **Water, Population and Development: Bangladesh Perspective**, Publication in process in the book on **Population, Development and Environment**, edited by Prof. M A Mabud, South Asian Institute of Advanced Studies (SAIAS).

Assessment Report 6 (**AR6**), Intergovernmental panel on Climate Change (IPCC), 2019; Expert Reviewer.

Special report '**Global warming of 1.5°C**', Intergovernmental panel on Climate Change (IPCC), 2019; Expert Reviewer.

Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (**SREX**), Intergovernmental panel on Climate Change (IPCC), 2011; Expert Reviewer.

Special Report on Renewable Energy Sources and Climate Change Mitigation (**SRREN**), Intergovernmental panel on Climate Change (IPCC), 2011, Expert Reviewer.

Md. Sirajul Islam, Taikan Oki, Shinjiro Kanae, Naota Hanasaki, Yasushi Agata and Kei Yoshimura (2007) A grid-based assessment of global water scarcity including virtual water trading, in **Integrated Assessment of Water Resources and Global Change A North-South Analysis**, Craswell, E.; Bonnell, M.; Bossio, D.; Demuth, S.; van de Giesen, N. (Eds.), 2007, 374 p., Hardcover ISBN: 978-1-4020-5590-4, **Springer**.

**Jiboner Jonnya Nadi** (The Bengali Version of the book **Rivers of Life** by Kelly Haggart, Saleemul Huq and Atiq Rahman) published by **Panos Publicatios**, UK in co-operation with *Bangladesh Centre for Advanced Studies (BCAS)*, Bangladesh, 1996. The book provides a critical view on the structural measures proposed in Flood Action Plan (FAP) to alleviate recurring flood events in Bangladesh. Served as one of the five contributing authors/translators (Chapter three and Chapter eight), edited by Dr. Abdullah Al-Muti Sharfuddin and Sayed Nazmuddin Hashem.

### **PEER REVIEWED JOURNAL**

Ahmed, N and Islam, M S (2018) **Development and testing of a low cost water level sensor and a mobile based real time flood warning system for the flash flood prone North Eastern part of Bangladesh**, accepted for the journal *International Journal of Sensors, Wireless Communications and Control*.

A.T.M Abir, MD Mostafizur Rahman, Farjana Islam, Raisa Bashar and Sirajul Islam (2018) **User Response – based Sustainable Solutions to Traffic Congestion Problem Using Public Transport: The Case of Uttara, Dhaka**, *International Journal of Traffic and Transportation Engineering*, May 2018.

Islam, M Sirajul (2016) Comment: Lesson learned from the School Earthquake Safety Initiative (SESI) and the Housing Earthquake Safety Initiative (HESI) projects, *Regional Development Dialogue (RDD)*, UNCRD, pp 14-16, Vol. 36, 2016

Islam. K. Ziaul; Islam. Md. Sirajul and Lacoursière J. O. (2014) **Low Cost Rainwater Harvesting: An Alternate Solution to Salinity Affected Coastal Region of Bangladesh**, *American Journal of Water Resources*, 2014, 2(6), 141-148

Alam, J. B.; M. Uddin; J. U. Ahmed; M. H. Rahman; B. K. Banik; N. Yesmin; Islam, Md. Sirajul (2009) **Study of the Morphological Change of the River Old Brahmaputra and its Impact**, *Asian Journal of Water, Environment and Pollution*, vol 6, no 1, pp 11-19.

Islam, Md. Sirajul, Oki, T, Kanae, S., Hanasaki, N., Agata, Y. and Yoshimura, K. (2007) **A Grid based Assessment of Global Water Scarcity including Virtual Water Trading**, *Water Resources Management*, **21(1)**, 19-33. (Springer)

Md. J. B. Alam, Molla, R. Islam, Z. Muyen ; M. Mamun; Islam, Md. Sirajul (2007) **Water Quality Parameters along Rivers**, *International journal for Environmental Science & Technology (IJEST)*, **4 (1)**, 159-167.

Islam, Md. Sirajul, Aramaki, T. and Hanaki, K. (2007) **GCM based Analysis of Climate Change Scenarios along the Tone River and its Effects on Tokyo Metropolitan Area Water Availability Scenario**, *Regional Environmental Changes*, **7(1)**, 15-26. (Springer)

Islam, Md. Sirajul, Hasan, G.M. Zahid, Chowdhury, M. A. I. (2006) **Destroying hills in the northeastern part of Bangladesh: A qualitative assessment of extent of the problem and its probable impact**, *International Journal of Environmental Science and Technology*, **2(4)**, 301-308.

Islam, Md. Sirajul, Aramaki, T. and Hanaki, K. (2005) **Development and Application of an Integrated Water Balance Model to Study the Sensitivity of the Tokyo Metropolitan Area Water Availability Scenario to Climatic Changes**, *Water Resources Management*, **19(4)**, 423-445. (Springer).

Islam, Md. Sirajul (2004) **Continued Debate on Flood Policy in Bangladesh: Toward a Sustainable Solution**, *VISION: A bi-monthly E-Journal published by the World Student Community for Sustainable Development (WSC-SD)*, published in its November 2004 Edition (<http://www.wcsd.org/ejournal/>)

#### **CONFERENCE PRESENTATION / PROCEEDINGS**

M. S. Islam, B. K. Deb (2019) Climate change and water resources: Adaptation options along the coastal belt of Bangladesh, BAS-TWAS-CASAREP YOUNG SCIENTISTS MEETING, Theme : Impact of Climate Change - A Way Forward, 29 September, 2019, *BCSIR, Dhaka, Bangladesh*.

*B. K. Deb, M. S. Islam (2018) Technology for adaptation to climate change: development of an inventory and evaluation of drinking water supply technologies along the salinity affected south west coastal region of Bangladesh. Elsevier 1<sup>st</sup> International Conference on Water Security 2018, 17-20 June, 2018, Toronto, Canada.*

Islam, Md. Sirajul and Ahmed, Sohel (2017) Factors Affecting Electricity Consumption in Dhaka City: A Case Study, 7th International Conference on Future Environment and Energy (ICFEE 2017), Penang, Malaysia, January 8-10, 2017

Islam, Md. Sirajul (2015) **Technology for Adaptation to Climate Change: Water resources Sector**, ICCWS 2015, 27 December, MIST, Dhaka, Bangladesh.

E. Islam and Islam, Md. Sirajul (2015) **Assessing the Environmental Risk Management Practices in the Banking sector of Bangladesh**, ICCWS 2015, 27 December, MIST, Dhaka, Bangladesh.

Islam, Md. Sirajul (2014) **Technology for Adaptation to Climate Change**, 1st Regional Seminar on Climate Change, Water Security and Prospects of Rainwater in Bangladesh, 27 August 2014, MIST, Dhaka, Bangladesh.

Islam, Md. Sirajul and Hossain, Iqbal (2013) **Bangladesh National Building Code (BNBC): Current Practices and Relevance to Future Climate Change Aspect**, CCTC 2013 Paper Number #1569697747, Proceedings of The 3rd Climate Change Technology Conference (CCTC 2013), Montreal, Canada, 27-29 May, 2013.

Islam, K. Ziaul; Islam, Md. Sirajul and Lacoursière J. O. (2013) **Low Cost Rainwater Harvesting: An Alternate Solution to Salinity Affected Coastal Region of Bangladesh**, CCTC 2013 Paper Number #1569705485, Proceedings of The 3rd Climate Change Technology Conference (CCTC 2013), Montreal, Canada, 27-29 May, 2013.

Islam, Md. Sirajul; Md., Niaz and Nishat, Ainun (2013) **Technologies for Adaptation: An Inventory and SWOT Analysis of Water Supply Options Along The South Western Coastal Region of Bangladesh Suffering From Acute Salinity Problem**, CCTC 2013 Paper Number #1569697101, Proceedings of The 3rd Climate Change Technology Conference (CCTC 2013), Montreal, Canada, 27-29 May, 2013.

Islam, M Sirajul (2010) **Climate Change Impact in Bangladesh**, Climate Change: Dialogue Bangladesh-Europe, Aug. 28 - 29, 2010, Centre for Adult Education (ZEB), Hannover, Germany,

Islam, Md. Sirajul (2009) **Climate Change and the Construction Sector**, proceedings of the IFAWPCA Convention, march 4-7, 2009, Dhaka, Bangladesh.

Islam, Md. Sirajul, Khan, M R, (2009) **Weather Insurance for farmers: A proposed methodology for insurance against crop damage in the context of Bangladesh**, Proceedings of the 2<sup>nd</sup> International Conference on Water and Flood Management (ICWFM), pp 651-660, March 15-17, Dhaka, Bangladesh (oral presentation).

Khan, M R, Islam, Md. Sirajul (2009) **Crop Insurance as an Instrument of Adaptation to Climate Risks: LDC Context**, Proceedings of the 3<sup>rd</sup> International Conference on Community based Adaptation to Climate Change, pp 21 (Abstract), February 18-24, Dhaka, Bangladesh (oral presentation).

Islam, Md. Sirajul (200) **CDM Prospect in the Building and Construction sector**, presentation in the Training Workshop on Capacity Development for Clean Development Mechanism (CD4CDM) Project, Organized Jointly by Bangladesh Centre for Advanced Studies (BCAS) and Waste Concern Consultants (WCC) and Supported by UNEP Riso Centre and the Netherlands Government, 3-4 March, 2009, Dhaka, Bangladesh.

Islam, Md. Sirajul (200) **Climate Change and the Construction Sector**, published in the Souvenir of the 37<sup>th</sup> Convention of the International Federation of Asian & Western Pacific Contractor's Associations (IFAWPCA), March 4-7, 2009, Dhaka, Bangladesh.

Khan, M R, Islam, Md. Sirajul (2008) **Crop Insurance as a Risk Management Strategy under Future Climate Change: Bangladesh Context**, Proceedings of the International Conference on Issues in Public Policy and Sustainable Development, pp 67 (Abstract), March 26–28, IGNOU, Delhi, India (Oral Presentation).

Islam, Md. Sirajul (2006) **Sea level Rise Impact along the Coastal Region of Bangladesh**; presented in the *Young Scientists Summit* on 'Climate Change and its Impact on the Cities' held in Bern, Switzerland, May 2006

Islam, Md. Sirajul, Oki, T., Hanasaki, N, Agata, Y, Kanae, S.(2005) **Global Water Resources Assessment under future Changes: Toward a better estimation**, Proceedings of the *American Geophysical Union (AGU) 2005 Joint Assembly*, 23-27 May, 2005, New Orleans, LA, USA (Oral presentation).

Islam, Md. Sirajul, Aramaki, T. and Hanaki, K. (2004) **Risk based Assessment of Water Availability along the Tone River and Tokyo Metropolitan Area under Climatic Changes**, Proceedings of the 2<sup>nd</sup> *International Conference of the Asia Pacific Association of Hydrology and Water Resources (APHW)*, 5-9 July 2004, Singapore. (Oral presentation).

Islam, Md. Sirajul, Hasan, G.M. Zahid, Chowdhury, M. A. I. (2004) **Destroying Hills in Northeastern Bangladesh : Extent of the problem and its probable impact**, Proceedings of the *International Symposium on Environmental Management, ISEM 2004*, organized by BUET and WEDC, 7-8 January 2004, BUET, Dhaka, Bangladesh (Oral presentation).

Islam, Md. Sirajul, Aramaki, T. and Hanaki, K. (2002) **An Assessment of Historical Trend and Sensitivity of Tone River Flow to Climatic Changes**. Proceedings of the *Third International Conference on Water Resources and Environment Research (ICWRER)*, 22<sup>nd</sup> - 25<sup>th</sup> of July 2002, Dresden, Germany (Oral presentation).

Koe, L. C.C. and Islam, Md. Sirajul (2002) **Conceptual Basis for Design of Odor Control Facilities along a Deep Tunnel Sewerage System**, Proceedings of the *IWA (International Water Association) World Water Congress 2002*, 7 - 12 April 2002; Melbourne, Australia (Oral presentation).

Islam, Md. Sirajul, Hanaki, K. and Aramaki, T. (2001) **Probable Impact of Climate Change along the Tone River Basin and Its Effect on the Water Supply Scenario of Tokyo Metropolitan Area**, Proceedings of the *Third International Summer Symposium, 2001, Japan Society of Civil Engineers (JSCE)*, August 8, 2001, Tokyo, Japan (Oral presentation).

Islam, Md. Sirajul, Eusuf, M.A., Chowdhury, M. A. I, and Sarkar, S.K. (2000) **Global Climate Change: Impact on the Water Availability Scenario in Bangladesh**, Proceedings of the 45<sup>th</sup> *Annual Conference of the Institute of Engineers of Bangladesh (IEB)*, 1-4 April, Sylhet, Bangladesh (Oral presentation).

Islam, Md. Sirajul and Chowdhury, J. U. (1996) **Drinking Water Supply for Dhaka City: An Assessment of Water Availability from Surrounding Small Rivers**, Proceedings of the 40<sup>th</sup> *Annual Conference of the Institute of Engineers of Bangladesh (IEB)*, 20-22 February, Dhaka, Bangladesh (Oral presentation).

## **RESEARCH REPORT**

Jakaria, M et al. (2016) **Watershed Management and Biodiversity of Pablakhali Protected Area**, Strengthening Regional Co- operation for Wildlife Protection Project (SRCWP) as Engineering and Water Management Specialist, World Bank, 2014-2017

Islam, Md. Sirajul (2010) **Development of an Inventory for Adaptation Technologies**, Final report as Research fellow, Adaptation, Technology and Science Programme of the UNFCCC secretariat, Bonn, Germany.

Khan, M R, and Islam M Sirajul (2009) **Crop Insurance as a Risk Management Strategy in Bangladesh**. Climate Change Cell of the Department of Environment (DOE), Government of Bangladesh supported by UNDP, DFID and EU.

Islam, Md. Sirajul (1996) **Living Environment Problems and its Solution: Estimation of Available River Water and Drought Risk for Dhaka City Water Supply**, UNCRD-BUET Joint Research Report, UNCRD, Nagoya, Japan.

### DISSERTATION

*PhD* : Integrated Assessment of Water Availability under Climatic Changes along the Tone River and Tokyo Metropolitan Area (TMA), Department of Urban Engineering, *Environmental Engineering Division*, The University of Tokyo, Japan.

*M. Engg.(Civil)* : A Model Study of Hydrogen Sulfide Emission from Municipal Sewer System, Department of Civil Engineering, Hydraulics & Environmental Engineering Division, The National University of Singapore (NUS), Singapore

*B Sc Engg. (Civil)*: Study of the Tidal Characteristics of Bangladesh Coast, Department of Water Resources Engineering, Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh

### NON-PEER REVIEWED ARTICLE AND PRESENTATION: (Partial / selected ones out of around hundred)

**Writes Popular Articles and interviewed** by a number of national newspapers and weeklies on Tipaimukh Dam, Climate change and Dhaka city Drainage condition at Prothom Alo, Ittefaq, Daily Star and TERM, etc.

(<http://www.thedailystar.net/newDesign/news-details.php?nid=148770> ).

**Destroying hills: Disasters yet to follow**, *Environment* page, The Daily Star, A leading national English daily in Bangladesh, 29 June, 2007. (<http://www.thedailystar.net/2007/06/29/d706291803128.htm>).

**Sea level Rise Impact along the Coastal Region of Bangladesh**; presented in the *Young Scientists Summit* on 'Climate Change and its Impact on the Cities' held in Bern, Switzerland, May 2006.

**World Water Day Observed: Water for all should be ensured** (in Bengali), *Engineering News*, Monthly Engineering Magazine published by the *Institute of Engineers of Bangladesh (IEB)*, April 1994, pp 23-24.

**A Brief Note on 1993 Flood in the Mississippi** (in Bengali), *Engineering News*, Monthly Engineering Magazine published by the *Institute of Engineers of Bangladesh (IEB)*, 38<sup>th</sup> Annual Convention edition, 1994, pp 41-43

### **Other Credentials**

**LANGUAGE PROFICIENCY:** Bengali (native), **English** (TOEFL Score: 573, 1997); However, the proficiency has improved considerably later), **Arabic, Japanese** (Good in understanding, moderate in writing and reading), Hindi.

### **EXTRA CURRICULAR ACTIVITIES / COMMUNITY SERVICE**

- **TIB Life member:** Transparency International Bangladesh, an international organization dealing with corruption reduction. Regularly get TIB reports, attend meetings and provide comments and suggestion.
- **Regional Working Group Leader (RWGL), WYF-ASIA (World YES Forum-ASIA) Sub-region 1 (South Asia),** Actively involved in several International organizations including **Alliance for Global Sustainability (AGS), World Student Community for Sustainable Development (WSC-SD)** and **Youth Encounter on Sustainability (YES)**.
- **Publication Secretary, EUCSU'97, Shaheed Smriti Hall Student's Union.**

**COUNTRY VISITED:** USA, Canada, UK, Japan, Germany, Switzerland, France, Belgium, Netherlands, Singapore, UAE, KSA, Malaysia, India, and Srilanka.

### **Personal Detail**

*Sex* : Male *Date of Birth and Place* : 3<sup>rd</sup> October, 1970 *Nationality* : Bangladeshi *Marital status* : Married *Permanent address:* Siza Court, 153/2 Monipuri Para, Tejgaon, Dhaka 1215, Bangladesh

### **References**

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