

**Report
on
2nd International Conference
on
Water and Flood Management
ICWFM-2009**

**15-17 March, 2009
Dhaka, Bangladesh**

Institute of Water and Flood Management
Bangladesh University of Engineering and Technology

May 2009

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Acknowledgement

The International Conference on Water and Flood Management (ICWFM-2009) was organized as per the decision of the Board of the Governors of the Institute of Water and Flood Management (IWFM) of BUET. The logistics support of BUET during the organizing phase and during conference was of vital importance to arrange the event. This conference would never have been successful without the intense and tireless efforts of some of the individuals and organizations. This endeavor therefore owes a considerable debt to a number of institutions.

We gratefully acknowledge the financial support provided by the Embassy of the Kingdom of the Netherlands. This support has made it possible to arrange the international event at an eminent venue, publish the pre-conference paper volume in an expanded manner and also accommodate more presenters from developing countries through financial support.

Active participation of the members from Department of Water Resources Engineering, BUET, Water Resources Planning Organization (WARPO), Bangladesh Water Development Board (BWDB), Local Government Engineering Department (LGED), Center for Environmental and Geographic Information Services (CEGIS) and Institute of Water Modelling (IWM), in organizing the conference, are gratefully acknowledged.

The members of the International Advisory Committee, the Local Advisory Committee and the Technical Committee are acknowledged for their valuable suggestions and comments.

The wholehearted cooperation provided by the faculty, staff and student volunteers of IWFM are gratefully acknowledged.

Last but not the least, the earnest and enthusiastic efforts by the members of various sub-committees, volunteers from different organizations and media persons are humbly appreciated.

Introduction and Background

On April 23, 2007 in a follow-up meeting of the Organizing Committee for (First) International Conference on Water and Flood Management (ICWFM-2007) it was decided that ICWFM should be organized as a bi-annual event. Later, in 2008 this decision was approved by the Board of Governors of Institute of Water and Flood Management (IWFM), BUET. Accordingly, International Conference on Water and Flood Management, ICWFM-2009 was held during 15-17 March, 2009. This report aims at providing an overview of the conference regarding its organization, papers, programme, and income and expenditure.

Management of water and flood plays a key role in economic growth and social development. Many of the water and flood management projects have not been able to achieve the desired objectives, because of inefficiency in water use, inequitable distribution of project benefits and costs, inappropriate institutional framework, and inadequate legal and regulatory measures. The emerging issues like global warming and climate change would exacerbate the management problems. Thus, there is a need for concerted effort to identify appropriate water policies, strategies and management practices to achieve sustainable solutions to water and flood management problems. The purpose of the conference was to discuss the above problems and issues and to advance knowledge on water and flood management in order to promote environmentally sustainable development.

Organization of Conference

Announcement

The first announcement of the conference was made in July 2008. The announcement was publicized through postal mails, group-emails, website and circulation of posters and brochures.

Conference Secretariat

A conference secretariat was established at IWFM, BUET since the announcement.

Organizers

The conference was organized by the Institute of Water and Flood Management (IWFM) of Bangladesh University of Engineering and Technology (BUET), in collaboration with Department of Water Resources Engineering, BUET, Water Resources Planning Organization (WARPO), Bangladesh Water Development Board (BWDB), and Local Government Engineering Department (LGED).

Committees and Sub-committees

The following four committees were formed at the early stage and included in the announcement:

1. Organizing Committee
2. Technical Committee

3. Local Advisory Committee
4. International Advisory Committee

Later the following sub-committees were formed by the organizing committee:

1. Finance Committee
2. Registration Committee
3. Session Management Committee
4. Technical Visit Committee
5. Foreign Participants Affairs Committee
6. Publication Committee
7. Accommodation and Tours Committee
8. Internet Committee
9. Inauguration Committee
10. Refreshment Committee
11. Transportation Committee

A complete list of committee members is provided in APPENDIX-I.

Sponsors

Financial supports for the conference were provided by The Embassy of the Kingdom of the Netherlands, Center for Environmental and Geographic Information Services (CEGIS) and Institute of Water Modelling (IWM). An agreement between The Embassy of the Kingdom of the Netherlands and IWFM, BUET, regarding financial support, was signed on March 4, 2009.

Financial contribution was also made by the LGED who collaborated in organizing the event.

A bank account was opened to operate the financial activities of the conference at Sonali Bank, BUET Branch (Current Account No. 33011231).

Registration fee

Registration fee for the participants is shown in Table 1. This fee covered registration materials, inauguration ceremony, and refreshment during conference, pre-conference paper volume and closing dinner.

Table 1: Registration fee

Developed countries	U.S. \$300
Developing countries	U.S. \$150
SAARC countries	U.S. \$100
Local participants	Tk. 2000

Financial assistance to participants

A total of 13 participants from developing countries received local financial assistance. The financial assistance covered registration fee, accommodation, food and local transportation during the conference.

Database

A central database was developed to keep record of the received abstracts, papers, and their registration and presentation schedules. It was updated from time to time to organize the whole event smoothly.

Website

A website was launched for the conference to provide necessary information and updates regarding the event. The link was: <http://www.buet.ac.bd/icwfm2009>

Papers and Participants

Selection of abstracts and full papers

According to the first announcement deadline for abstract submission was 15 September 2008, notification of abstract acceptance 15 October 2008, deadline for full-paper submission 15 December 2008, notification of full-paper acceptance 15 January 2009, deadline for registration 31 January 2009. Finally, 179 abstracts were received from 17 countries.

These 179 abstracts were reviewed by 19 reviewers. A total of 146 abstracts were accepted and the corresponding authors were notified to submit full papers. Respective authors were notified about the status of their abstracts as per schedule. A country-wise distribution of the received and accepted abstracts is given in Table 2.

Table 2: Country-wise distribution of received and accepted abstracts

Country	Number of abstracts received	Number of abstracts accepted
Australia	6	6
Bangladesh	88	71
Cyprus	1	1
France	1	1
Germany	3	2
Ghana	1	1
India	28	21
Indonesia	4	3
Iran	10	8
Iraq	1	1
Japan	28	25
Nigeria	1	1
Rwanda	1	1
Sri Lanka	1	1
Turkey	1	1
UK	1	1
USA	2	1
Total	178	146

These abstracts were received under nine themes. A distribution of received and accepted abstracts under different themes is provided in Table 3.

Table 3: Theme-wise distribution of abstracts received and accepted

Theme	Number of abstracts received	Number of abstracts accepted
Agricultural Water Management	20	17
Catchment Processes, Ecosystems and Quality of Environment	63	57
Climate Change Impacts on Water Management	18	14
Coastal Zone Management	24	20
Flood Management	19	13
Management of Shared River Basin	1	1
Urban Water Management	13	9
Water Information Management	12	12
Water Policy and National Development	8	3
	178	146

A total of 95 full papers out of 146 selected abstracts were received. These full paper were reviewed and finally 87 full papers were accepted for the conference.

Keynote papers

Two renowned researchers from the Netherlands; Mr. G. J. Klaassen and Mr. Ronald Waterman were invited as keynote speaker for ICWFM-2009. Mr. Klaassen prepared a paper on River Erosion, Sedimentation and Bank protection, while Mr. Waterman did the same on Coastal Zone Management. Table 4 shows a country-wise distribution of the full papers of ICWFM-2009. Table 5 shows a theme-wise distribution of the papers of ICWFM-2009. Among the selected papers, no paper was received in the theme 'Management of Shared River Basin' and Water Policy and National Development.

Table 4: Country-wise distribution of full papers for ICWFM-2009

Country	Number of Papers
Australia	4
Bangladesh	43
Cyprus	1
France	1
Germany	1
India	8
Indonesia	1
Iran	2
Japan	22
Malaysia	1
Netherland	2*
Rwanda	1
Sri Lanka	1
USA	1
Total	89

* Both are keynote papers

Table 5: Theme-wise distribution of full papers for ICWFM-2009

Theme	Number of papers
Agricultural Water Management	12
Catchment Processes, Ecosystems and Quality of Environment	28
Climate Change Impacts on Water Management	9
Coastal Zone Management	9*
Flood Management	12
River Erosion, Sedimentation and Bank Protection	7*
Urban Water Management	6
Water Information Management	6
Total	89

*Including a keynote paper

Conference proceedings

Format:

A format for the conference proceedings was circulated among the authors. Suggested maximum page limit was eight on a custom-sized paper with 7.5 X 10 inch and 1 inch margin on all four sides.

The pre-conference paper volume has been distributed ahead of the conference among the authors, delegates, guests and committee members. Some additional copies have been kept to distribute to selected libraries inside the country.

Number of participants

A total of 100 authors participated during the conference including 45 participants from abroad. Apart from authors, professionals and delegates from Germany and Thailand attended the conference. This time a significant number of local delegates attended the conference. A total of fifty members of various sub-committees of the conference also attended the conference. A complete list of participants: authors, keynote speakers and delegates followed by a separate list of authors who received local financial assistance is provided in APPENDIX-II.

Conference Program

Distribution of registration kit

Participants from Bangladesh collected their registration materials on 14 March, 2009 at the registration desk of IWFMM, while participants from abroad received it from their respective hotel receptions.

Venue

The conference was held at Bangladesh-China Friendship Conference Centre (BCFCC) at Agargaon.

Inauguration

The three day event from 15th to 17th of March began with an inaugural ceremony where around 350 persons attended. Apart from the authors and organizers guests from different

government and non-government organizations attended the inaugural session. Journalists from some of the national dailies and electronic media also joined the inaugural ceremony. Press clippings from some of the newspapers are provided in APPENDIX-III.

After recitation from the Holy Qur'an, Professor Anisul Haque, Director of IWFM, BUET made a welcome speech. It was followed by an address from the Special Guests, Mr. Fritz Meijndert, Head of Development Co-operation, Embassy of the Kingdom of The Netherlands and Professor A. M. M. Safiullah, Vice-Chancellor of Bangladesh University of Engineering and Technology. Then, Dr. Muhammad Abdur Razzaque, MP Honorable Minister, Ministry of Food and Disaster Management, Government of the Peoples' Republic of Bangladesh, made his address as the Chief Guest and announced the inauguration of the conference. Finally, Professor Abul Fazal M. Saleh, Chairman of Organizing Committee, made his address. At the end of inaugural ceremony Professor Saleh, Chairman, ICWFM-2009 handed over conference crests to the Special Guests and Professor Anisul Haque, Director, IWFM, BUET handed over the conference crest to the Chief Guest.



Photo 1: Inaugural ceremony of ICWFM-2009



Photo 2: Left: Conference Chair, Professor Saleh handing over the conference crest to the Special Guest Mr. Meijndert, Head of Development Co-operation, Embassy of the Kingdom of The Netherlands and Right: Professor Anisul Haque, Director IWFM, BUET handing over the conference crest to the Chief Guest Dr. Dr. Muhammad Abdur Razzaque MP, Honorable Minister, Ministry of Food and Disaster Management, during the inauguration ceremony



Photo 3: Some of the audience of the inauguration ceremony of ICWFM-2009

Paper presentation in technical sessions

Presentation of 89 papers were arranged by distributing them among fourteen technical sessions on March 15 and 16. These technical sessions were accommodated by arranging two parallel sessions on each day.

During ICWFM-2009, two special sessions on ‘River Erosion, Sedimentation and Bank Protection’ and ‘Climate Change Impacts on Water Management’ were included. The paper presentation schedule including the paper titles are given in APPENDIX-IV. Fifteen minutes was allotted for every author that included a five minutes discussion period. Table 6 shows the number of technical sessions under each theme.

Table 6: Theme-wise distribution of number of technical sessions for ICWFM-2009

Theme	Number of sessions
Agricultural Water Management	2
Catchment Processes, Ecosystems and Quality of Environment	4
Climate Change Impacts on Water Management	2
Coastal Zone Management*	1
Flood Management	2
River Erosion, Sedimentation and Bank Protection*	1
Urban Water Management	1
Water Information Management	1
Total number of technical sessions	14

*Included a keynote presentation



Photo 4: Keynote Presentations during ICWFM-2009, Left: Mr. G. J. Klaassen on River Erosion, Sedimentation and Bank Protection and Right: Mr. Ronald Waterman on Coastal Zone Management



Photo 5: Presentations during technical sessions of ICWFM-2009

Closing dinner

A closing dinner for all the participants was held at a BUET Cafeteria from 7:30 pm in the evening on March 16, 2009. Vice-chancellor of BUET, Professor Dr. A. M. M. Safiullah, Mr. Fritz Meijndert, Head of Development Co-operation, Embassy of the Kingdom of The Netherlands and some officials from collaborating and sponsoring agencies also joined the dinner. A 40-minute absorbing cultural program preceded the dinner.



Photo 6: Cultural program on 16 March evening at BUET Auditorium

City bus tour

Due to security reasons the technical tours were cancelled and instead a city bus tour was arranged for the foreign participants. Local Government Engineering Department (LGED) provided logistical support during the tour.

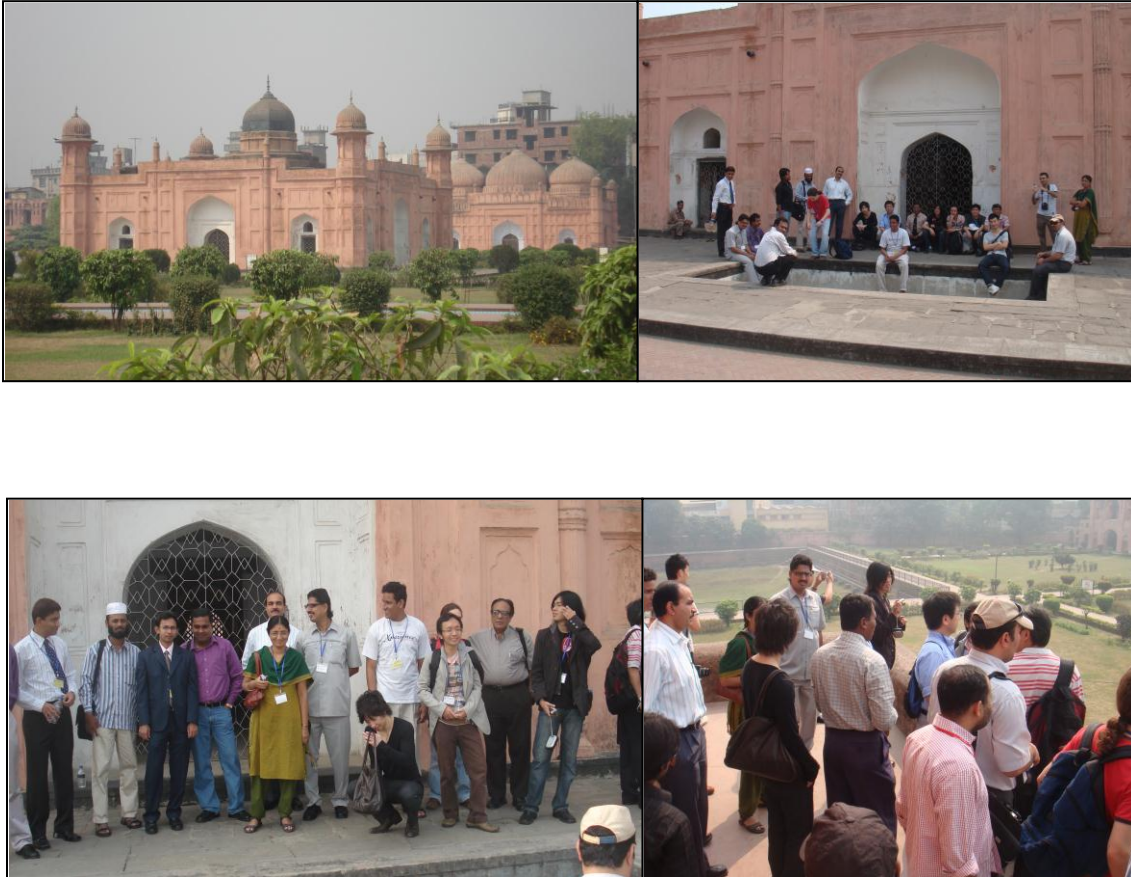


Photo 7: Participants visiting different historic monuments in Dhaka

APPENDIX I: LIST OF COMMITTEE MEMBERS

Organizing Committee

Professor Abul Fazal M. Saleh, IWFM, BUET
Professor Jahir Uddin Chowdhury, IWFM, BUET
Professor Anisul Haque, IWFM, BUET
Professor Md. Munsur Rahman, IWFM, BUET
Professor M. Mirjahan, DWRE, BUET
Mr. Md. Shahjahan, Director, WARPO
Mr. Md. Shahidul Haque, Executive Engineer, LGED
Mr. G. M. Shamsur Rahman, Director, PMU-ESPP, BWDB
Dr. Mohammad Asad Hussain, IWFM, BUET

Technical Committee

Professor Abul Fazal M. Saleh, IWFM, BUET
Professor Jahir Uddin Chowdhury, IWFM, BUET
Professor Mozzammel Hoque, IWFM, BUET
Professor Md. Rezaur Rahman, IWFM, BUET
Professor M. Monwar Hossain, DWRE, BUET
Mr. Saiful Alam, WARPO
Dr. K.M. Nabiul Islam, BIDS

Local Advisory Committee

Executive Director, Bangladesh Centre for Advanced Studies
Director General, Bangladesh Institute of Development Studies
Director General, Bangladesh Water Development Board
Director General, Water Resources Planning Organization
President, Bangladesh Water Partnership
Executive Director, Centre for Environmental and Geographic Information Services
Director General, Department of Environment
Executive Director, Institute of Water Modelling
Chief Engineer, Local Government Engineering Department
Division Chief Agriculture, Water Resources and Rural Institution Division, Planning Commission
Director General, River Research Institute

International Advisory Committee

Dr. Saleemul Huq, International Institute for Environment and Development
Professor Eelco van Beek, Delft Hydraulics, The Netherlands
Mr. Ajaya Dixit, Nepal Water Conservation Foundation, Nepal
Professor Nimal Gunawardena, South Asian Consortium for Interdisciplinary Water Resources, India
Professor Takashi Hosoda, Kyoto University, Japan
Stephan J. Hug, Swiss Federal Institute of Aquatic Science and Technology, Switzerland
Professor Shafiqul Islam, Tufts University, USA
Dr. Peter P. Mollinga, Centre for Development Research, Germany
Professor Hajime Nakagawa, Kyoto University, Japan
Dr. Ainun Nishat, International Union for Conservation of Nature, Bangladesh

Professor Salim Rashid, University of Illinois of Urbana Champaign, USA
Dr. Olli Varis, Helsinki University of Technology, Finland
Dr. Saleh A. Wasimi, Central Queensland University, Australia
Dr. Claire Welty, University of Maryland, Baltimore
Mr. G. Pichel, DHV Consultants

Finance Committee

Professor Md. Rezaur Rahman, IWFM, BUET
Professor M. Munsur Rahman, IWFM, BUET
Professor M. Shah Alam Khan, IWFM, BUET
Mr. Moshir Rahman, LGED
Mr. Md. Shahjahan, WARPO
Mr. Ahmadul Hassan, CEGIS
Mr. Abu Saleh Khan, IWM
Dr. Mohammad Asad Hussain, IWFM, BUET

Registration Committee

Professor M. Munsur Rahman, IWFM, BUET
Mr. Biswajit Nandi, DWRE, BUET
Ms. Nazmun Naher Chowdhury, WARPO
Mr. Md. Shafquat Hasan, BWDB
Mr. A.S.M. Sumsuzz Joha, LGED
Ms. Jakia Akter, CEGIS
Mr. Sharif Imam Ib-N-E Amir, IWM

Session Management Committee

Dr. A.K.M. Saiful Islam, IWFM, BUET
Dr. Mohammed Abed Hossain, IWFM, BUET
Dr. Tarekul Islam, IWFM, BUET
Mr. Aminur Rahman Shah, CEGIS
Mr. Tauheed Mahmud Hussain, IWM

Technical Visit Committee

Professor M. A. Matin, DWRE, BUET
Mr. Moshir Rahman, LGED
Mr. G. M. Shamsur Rahman, BWDB
Dr. Mashfiqus Salehin, IWFM, BUET
Dr. M. Shahjahan Mondal, IWFM, BUET

Foreign Participants Affairs Committee

Professor M Mozzammel Hoque, IWFM, BUET
Dr. Sujit Kumar Bala, IWFM, BUET
Mr. Md. Shahjahan, WARPO
Mr. Md. Shahidul Haque, LGED
Mr. Tarue Abdullah Al Fayaz, BWDB

Publication Committee

Professor M. Shah Alam Khan, IWFM, BUET
Dr. M. Shahjahan Mondal, IWFM, BUET
Dr. M. Aatur Rahman, DWRE, BUET
Mr. Syed Abu Shoaib, WARPO
Mr. Motaleb Hossain Sarker, CEGIS

Accommodation and Tours Committee

Dr. Sujit Kumar Bala, IWFM, BUET
Mr. Md. Siddiquir Rahman, WARPO
Mr. Badal Mohaldar, DWRE, BUET

Internet Committee

Dr. A.K.M. Saiful Islam, IWFM, BUET
Dr. Mohammed Abed Hossain, IWFM, BUET
Mr. Biswajit Nandi, DWRE, BUET
Mr. Krishna Chandra Bhadra, WARPO

Inauguration Committee

Dr. Tarekul Islam, IWFM, BUET
Dr. Umme Kulsum Navera, DWRE, BUET
Dr. Mohammed Abed Hossain, IWFM, BUET
Mr. Sultan Ahmed, CEGIS
Ms. Fahima Shahadat, IWM

Refreshment Committee

Dr. Mashfiqus Salehin, IWFM, BUET
Mr. Nuruzzaman Sheikh, IWFM, BUET
Mr. Md. Siddiquir Rahman, WARPO
Mr. Robin Kumar Biswas, BWDB
Mr. Sheikh Tareq Jaman, LGED
Mr. Nandan Mukherjee, CEGIS

Transportation Committee

Mr. Md. Belayet Hossain BWDB
Dr. Sujit Kumar Bala, IWFM, BUET
Dr. Aatur Rahman, DWRE, BUET
Mr. A.K.M. Shahidul Islam, LGED
Mr. Md. Shahjahan, WARPO
Mr. Md. Abul Hossain, BWDB
Mr. Syed Ahsanul Haque, CEGIS
Mr. Md. Mohaimenul Islam, IWM

APPENDIX II: LIST OF PARTICIPANTS IN ICWFM-2009

Authors:

Sl. No.	Name and Address	Abstract ID
1	Mohammad Mehdi Heydari Ph.D Student, Hydraulic Structure Department of Sciences And Researches Azad University, Ahwaz, Iran	3
2	Md. Alauddin Hossain Senior Scientific Officer (Ad. Ch.) River Research Institute, Faridpur-7800 Bangladesh	5
3	Prakash C Swain Department of Civil Engineering University College of Engineering, Burla-768018, Orissa, India	6
4	H J Shiva Prasad Department of Civil Engineering G B Pant University of Agriculture & Technology Pantnagar-263145, Uttarakhand, India	
5	Amal Roy Chowdhury Regional Occupational Health Centre (E) Indian Council of Medical Research Salt Lake City, Calcutta – 700 091, India	8
6	Amit Baran Sharangi Department of Spices and Plantation Crops Bidhan Chandra Krishi Viswavidyalaya Mohanpur-741252, Nadia, West Bengal, India	10
7	Narayan Chattopadhyay Department of Spices and Plantation Crops Faculty of Horticulture, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur-741 252, Nadia, West Bengal, India	11
8	Hojjat Yazdan Panah Assistant Professor, Department of Geography University of Isfahan, Isfahan, Iran	12
9	Gias Uddin Ahmed Professor, Institute of Forestry & Environmental Sciences University of Chittagong, Chittagong, 4331, Bangladesh	15
10	Suresh Kumar Pande Head, Department of Soils and Agricultural Engineering, Higher Institute of Agriculture and Animal Husbandry (ISAE), Busogo, Post Box-210, Ruhengeri, Rwanda	16
11	M. Shahjahan Mondal Associate Professor, Institute of Water and Flood Management, Bangladesh University of Engineering and Technology, Dhaka-1000 Bangladesh	17
12	Salih Gucel Near East University, Institute of Environmental Sciences, Nicosia, Cyprus	21
13	Abu Saleh Khan Institute of Water Modelling, New DOHS, Mohakhali, Dhaka-1206 Bangladesh	27

14	Krishna Prasad Dulal Laboratory of Hydraulic Research, Hokkaido University, N-13,W-8,Kita-Ku, Sapporo 060-8628, Japan	28
15	Md. Sohel Masud Institute of Water Modelling, House 496, Road 32, Mohakhali DOHS, Dhaka 1212, Bangladesh.	29
16	Md. Yousuf Mamun Graduate Student, Department of Water Resources Engg. Bangladesh University of Engineering and Technology Dhaka-1000, Bangladesh.	30
17	Tanvir Ahmed Graduate Student, Department of Water Resources Engg. Bangladesh University of Engineering and Technology Dhaka-1000, Bangladesh.	
18	Anjuma Tabassum Khan Institute of Water Modelling, New DOHS, Mohakhali, Dhaka-1206, Bangladesh	31
19	Md. Yousuf Mamun Junior Specialist, Flood Management Division, Institute of Water Modelling, House No-496, Road No-32, New DOHS Mohakhali, Dhaka- 1206, Bangladesh.	37
20	Sujit Kumar Bala Institute of Water and Flood Management, Bangladesh University of Engineering and Technology, Dhaka-1000 Bangladesh	39
21	Md. Rezaul Karim Department of Civil Engineering, Khulna University of Engineering and Technology, Khulna-9203, Bangladesh	41
22	Gazi Mohammad Mohsin Consultant, Local Government Engineering Department Dhaka-1000, Bangladesh	
23	Md. Shafiquzzaman Department of Environmental Systems Engineering, Ritsumeikan University, Nojihigashi 1-1-1, Kusatsu, Shiga, 525-8577, Japan	42
24	Bijoy Kumar Ghosh Sher-e-Bangla Nagar Govt. Boys High School and College, Dhaka, Directorate of Secondary and Higher Education, Bangladesh	44
25	Akira Sakai Faculty of Information Sciences, University of Marketing and Distribution Sciences, Kobe 651-2188, Japan	46
26	Grinaldo Dita Maranatha Public Service and Research Centre, Maranatha Christian University, Bandung 40164, Indonesia	47
27	Bishawjit Mallick Institute of Regional Science (IfR), Karlsruhe University (TH), 76131 Karlsruhe (TH), Germany	51
28	Saleh A. Wasimi CQ University, Rockhampton, Queensland 4702, Australia	53
29	Md. Shahjahan Ali Assistant Professor, Civil Engineering Department Khulna University of Engineering and Technology Khulna-9203, Bangladesh	55

30	Md. Saiful Islam Department of Civil Engineering, Khulna University of Engineering and Technology, Khulna-9203, Bangladesh	56
31	Hiroshi Uyeda Hydrospheric Atmospheric Research Center, Nagoya University, Japan	58
32	Hao Zhang Disaster Prevention Research Institute, Kyoto University, Shimomisu, Yoko-oji, Fushimi-ku, Kyoto 612-8235, Japan	60
33	Kh. Md. Shafiul Islam Department of Civil Engineering, Khulna University of Engineering and Technology, Khulna 9203, Bangladesh	61
34	Andrew Jenkins Planning Directorate III, Bangladesh Water Development Board (BWDB), Hasan Court (7th Floor) 23/1 Motijheel C/A, Dhaka 1000, Bangladesh	63
35	A.T.M. Habibullah Planning Directorate III, Bangladesh Water Development Board (BWDB), Hasan Court (7th Floor) 23/1 Motijheel C/A, Dhaka 1000 Bangladesh	
36	Md. Zafar Iqbal Planning Directorate III, Bangladesh Water Development Board (BWDB), Hasan Court (7th Floor) 23/1 Motijheel C/A, Dhaka 1000 Bangladesh	
37	Alamgir Chowdhury Planning Directorate III, Bangladesh Water Development Board (BWDB), Hasan Court (7th Floor) 23/1 Motijheel C/A, Dhaka 1000 Bangladesh	
38	Md. Amirul Hossain Executive Engineer, Planning-III, Bangladesh Water Development Board (BWDB), 23/1 Motijheel CA (7th & 8th Floor), Dhaka-1000 Bangladesh	64
39	A.H.M. Kausher Chief Engineer, Hydrology, former Project Director, IPSWAM, BWDB, Motijheel CA , Dhaka-1000, Bangladesh	
40	Md. Nazrul Islam SAARC Meteorological Research Centre Agargaon, Dhaka-1207, Bangladesh	72
41	Jayson Peterson Hydro Tasmania Consulting, 89 Cambridge Park Drive, Tasmania 7170 Australia	76
42	Sho SHIBATA Graduate School of Engineering, Kyoto University, Gokasho, Uji, Kyoto, 611-0011, Japan	78
43	Anwar Zahid Ground Water Hydrology, Bangladesh Water Development Board, Dhaka-1205, Bangladesh	79
44	B.R.S.B. Basnayake SAARC Meteorological Research Centre (SMRC), Dhaka 1207, Bangladesh	80
45	Mohammad Nazim Uddin Assistant Professor, Department of Civil Engineering, DUET, Gazipur-1700, Bangladesh	82

46	A. D. Thube Department of Civil Engineering, College of Engineering Pune, Shivajinagar, Pune-411005, Maharashtra India	84
47	G.M. Tarekul Islam Institute of Water and Flood Management, Bangladesh University of Engineering and Technology, Dhaka-1000 Bangladesh	85
48	Fahmida Hoque Khan Sub-Divisional Engineer, Roads and Highways Department, Sarak Bhaban, Ramna, Dhaka, Bangladesh	86
49	Krishna Prasad Dulal of Hydraulic Research, Hokkaido University, N-13,W-8,Kita-Ku, Sapporo 060-8628, Japan,	88
50	Abu Jafar Md. Saleh Bangladesh Institute of Development Studies, Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh,	89
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52	Md. Mobassarul Hasan Post Graduate Student, Department of Water Resources Engineering, BUET Dhaka-1000, Bangladesh	94
53	Mohammed Arifur Rahman Institute of Water and Flood Management, Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh	97
54	M. Shahab Uddin Institute of Marine Sciences and Fisheries, University of Chittagong, Chittagong-4331, Bangladesh	98
55	Manjur Murshed Zahid Ahmed Specialist, Institute of Water Modelling (IWM), Dhaka-1206 Bangladesh	99
56	Md. Mobassarul Hasan Junior Specialist, Institute of Water Modelling, Dhaka-1206, Bangladesh	100
57	Dr. M A Sattar Chief Scientific Officer & Head Irrigation and Water Management Division, Bangladesh Rice Research Institute (BRRI), Gazipur-1701, Bangladesh	102
58	Mst. Irin Parvin Research Fellow, Institute of Water and Flood Management Bangladesh University of Engineering and Technology Dhaka 1000, Bangladesh	
59	Dr. A F M Afzal Hossain PEng. Specialist, Institute of Water Modelling, Dhaka Bangladesh	104
60	Md. Jakir Hossain Irrigation Management Division, Institute of Water Modelling (IWM), Dhaka-1206 Bangladesh	105
61	Akihiro Toyama Graduate school of Engineering, Hokkaido University, Kita13 Nishi8, Kita-ku, Sapporo, Japan	107

62	Yusuke Yamane Pioneering Research Unit for Next Generation, Kyoto University, Gokasho, Uji, Kyoto, Japan	109
63	Toru Terao Faculty of Education, Kagawa University, 1-1, Saiwaicho, Takamatsu, Kagawa 760-8522, Japan	111
64	Akm Saiful Islam Institute of Water and Flood Management, Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh	112
65	Yoshihisa Kawahara Department of Civil and Environmental Engineering, Hiroshima University, 1-4-1 Kagamiyama, Higashi-hiroshima, Japan	113
66	Jiro MIYATAKE Hokkaido River Disaster Prevention Research Center, Ito 110 Building, 5-1, North 7 West 4, Kita-ku, Sapporo, Hokkaido 060- 0807, Japan	115
67	Someshwar Das SAARC Meteorological Research Center, Dhaka-1207 Bangladesh	120
68	N.K.M. Nanseer Water Resources Specialist, Lanka Hydraulic Institute, Moratuwa, Sri Lanka	121
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74	Vikas Garg Associate Professor, Civil Engg Dept., M.M. Engg. College, Mullana, Ambala, India	131
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81	Arun Goel Assistant Professor, Department of Civil Engineering, National Institute of Technology, Kurukshetra, 136119, Haryana, India	151
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95	Masudur Rahman M. Sc. Student, Institute of Water and Flood Management, Bangladesh University of Engineering and Technology, Dhaka-1000 Bangladesh	178
96	A.A. Mamun Bioenvironmental Engineering Research Unit (BERU), Faculty of Engineering, International Islamic University Malaysia, Jalan Gombak, 53100 Kuala Lumpur, Malaysia	179

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1	Gerrit J. Klaassen Independent Consulting Engineer, River Engineering & Environment (Retd. Specialist WL/Delft Hydraulics & Ass Prof. UNESCO- IHE) The Netherlands	Keynote Paper on River Erosion, Sedimentation and Bank Protection
2	Ronald Waterman 122 PROF. EVERTSLAAN 2628 XZ DELFT The Netherlands	Keynote Paper on Coastal Zone Management

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3/15/2009 Session 1 Room: Media Bazaar *Catchment Processes, Ecosystems and Quality of Environment*
Chair: Prof. Jahir Uddin Chowdhury **Rapporteur:** Dr. M. Shahjahan Mondal

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|--------------|--|---|---------------------|
| 11:00 | Synoptic Conditions on Severe Local Storm Days during the Pre-monsoon Season in Bangladesh | Yusuke Yamane | Abs. No: 109 |
| 11:15 | Diurnal Variation of Rainfall Intensity in Pre-Monsoon and Monsoon over Bangladesh and the Northeastern India | Toru Terao, Md. Nazrul Islam, Fumie Murata, Yusuke Yamane and Taiichi Hayashi | Abs. No: 111 |
| 11:30 | Characteristics of Cloud Systems in and around Bangladesh during Monsoon Season | Shunsuke Tsushima, Yusuke Yamane, Toru Terao, Fumie Murata, Masashi Kiguchi and Taiichi Hayashi | Abs. No: 139 |
| 11:45 | Diagnosis of Sanitation and Local People's Willingness to Improve the Living Environment in a Rural Area of Bangladesh | Akira Sakai, Kunio Takahashi, Sho Shibata, Yoshimi Hagihara, Kiyoko Hagihara and Maiko Sakamoto | Abs. No: 46 |
| 12:00 | Unsteady RANS Computation of Open Channel Flows with a Rectangular Dead-Zone | Md. Shahjahan Ali, Takashi Hosoda, and Ichiro Kimura | Abs. No: 55 |
| 12:15 | Simulation of Characteristics of Precipitation Systems Developed in Bangladesh during Pre-Monsoon and Monsoon | M. Rafiuddin, Hiroshi Uyeda and Md. Nazrul Islam | Abs. No: 58 |
| 12:30 | Dynamic Analysis of Interaction of Gravity Dam and Hyper Reservoir in Frequency Domain | Mohammad mehdi Heydari | Abs. No: 3 |
| 12:45 | Community Health Impairment due to the Exposure of Arsenic through Underground Drinking Water | Amal Roy Chowdhury | Abs. No: 8 |

3/15/2009 Session 2 Room: Windy Town *River Erosion, Sedimentation and Bank protection*
Chair: Mr. Abul Kalam Mohd Azad, Director General, BWDB **Rapporteur:** Dr. Umme Kulsum Navera

- | | | | |
|--------------|--|--|---------------------|
| 11:00 | Key Note Paper on River Erosion, Sedimentation and Bank Protection | G. J. Klassen | Abs. No: 180 |
| 11:30 | Flow Field around Sirajgang Hardpoint along the Jamuna River in Bangladesh | Mohammad Nazim Uddin and Md. Munsur Rahman | Abs. No: 82 |
| 11:45 | Evolutions of Bedforms including Meandering and Bank Erosion in the | Krishna Prasad Dulal and Yasuyuki | Abs. No: 88 |

	Alluvial Laboratory Channels with Fluctuating Hydrographs	Shimizu	
12:00	Prediction of Water Surface Elevation in a Steep Doubly Meandering Compound Channel using CIP-Based Scheme	G.M. Tarekul Islam, Yoshihisa Kawahara, Tatsuhiko Uchida & Yu Morishita	Abs. No: 85
12:15	Flow Field and Bed Deformation Caused by River-Crossing Structure	Hao Zhang, Hajime Nakagawa, Yasunori Muto and Keiichi Kanda	Abs. No: 60
12:30	Role of Cohesive Sediments on the Evolutions of Meandering Channel	Krishna Prasad Dulal and Yasuyuki Shimizu	Abs. No: 28
12:45	Field Observations on Velocity Distribution around Sirajganj Hardpoint and Jamuna Bridge in Jamuna River	Yasuyuki Baba, Hajime Nakagawa, Hao Zhang and Kenji Kawaike	Abs. No: 149

3/15/2009 Session 3 *Room: Media Bazaar* *Catchment Processes, Ecosystems and Quality of Environment*
Chair: Mr. Ronald Waterman *Rapporteur: Dr. Umme Kulsum*
 Navera

14:00	Erosion of Left Bank of The Padma River at Mawa-Dighirper Reach and its Socio-Economic Impact	Mohammed Arifur Rahman and Md. Munsur Rahman	Abs. No: 97
14:15	Community Level Planning for Arsenic Contaminated Drinking Water in Bangladesh	Sho Shibata, Kiyoko Hagihara, Yoshimi Hagihara and Akira Sakai	Abs. No: 78
14:30	Flow paths and Travel Time of Groundwater from Arsenic Contaminated Zone to Deeper Aquifer Units under Different Development Stresses	Anwar Zahid and Muhammad Qumrul Hassan	Abs. No: 79
14:45	Utilization of Reliable Seasonal Weather Forecasting Technique as an Adaptive Tool for Sustainable Management of Water Resources in Sri Lanka	B.R.S.B. Basnayake, M.A.R. Akand and M.K. Das	Abs. No: 80
15:00	Uptake of Aluminum by Vegetation from the Sludge of a Water Treatment Plant	Fahmida Hoque Khan and Md. Delaware Hossain	Abs. No: 86
15:15	Characteristics of Free Surface Oscillations in Open Channel Flows with a Side-Cavity	Ichiro Kimura, Seiya Mino, Takashi Hosoda, Yasuyuki Shimizu and	Abs. No: 93

Toshifumi Shibata

3/15/2009 Session 4 <i>Room: Windy Town</i> <i>Climate Change Impacts on Water Management</i>
<i>Chair: Prof. Rezaur Rahman</i> <i>Rapporteur: Dr. A. K. M. Saiful Islam</i>

14:00 Long-Term Changes in Bright Sunshine Duration in Bangladesh and Its Effects on Crop Evapotranspiration	M. Shahjahan Mondal, Farzana Nasrin, Sinora Zaman and Mollah Md. Awad Hossain	Abs. No: 17
14:15 Climate Change Implications on Drainage System in Coastal Polders of Bangladesh	Md. Sohel Masud and Abu Saleh Khan	Abs. No: 29
14:30 Climate Change Trends in Bangladesh	Saleh A. Wasimi	Abs. No: 53
14:45 Participatory Water Management: A Strategy for Climate Change Adaptation in Coastal Bangladesh	A.T.M. Habibullah, Andrew Jenkins, Md. Zafar Iqbal and Alamgir Chowdhury	Abs. No: 63
15:00 Regional Climate Model for Rainfall Projection in Bangladesh	Md. Nazrul Islam	Abs. No: 72
15:15 Impact Assessment of Climate Change on Monsoon Flooding and Salinity Intrusion	Md. Mobassarul Hasan, Zahurul Haque Khan, Nasreen Mohal and MD. Upal Mahamud	Abs. No: 100

3/15/2009 Session 5 <i>Room: Media Bazaar</i> <i>Coastal Zone Management</i>
<i>Chair: Prof. Anisul Haque</i> <i>Rapporteur: Dr. M. Abed Hossain</i>

16:00 Key Note Paper on Coastal Zone Management	Mr. Ronald Waterman	Abs. No: 181
16:30 Solar Distillation – A Low Cost Small Scale Fresh Water Management	Kh. Md. Shafiul Islam	Abs. No: 61
16:45 Coastal Zone Plant Diversity of Cyprus	Salih Guçel, Costas Kadis, Constantinos Kounnamas, Aykut Guvensen and Munir Ozturk	Abs. No: 21
17:00 Social Supremacy and Location of Cyclone Centre: A Determinant of Social Vulnerability Analysis in A Coastal Union Of Bangladesh	Joachim Vogt, Bishawjit Mallick and Apurba Swatee Mahboob	Abs. No: 51
17:15 Integrated Participatory Water Management Approach for Sustainable Development of a Coastal Polder	Md. Amirul Hossain and A.H.M. Kausher	Abs. No: 64
17:30 Investigation of Alternative Systems for Coastal Protection at West Coast	Manjur Murshed Zahid Ahmed,	Abs. No: 99

of Peninsular Malaysia

Zahirul Haque Khan and Md.
Mobassarul Hasan

17:45 Role of Coastal Forest to Reduce Storm Surge Area in Bangladesh

Gias Uddin Ahmed

Abs. No: 15

3/15/2009 Session 6 Room: **Windy Town** *Climate Change Impacts on Water Management*

Chair: Dr. Saleh Wasimi

Rapporteur: Dr. M. Shahjahan

Mondal

16:00 Dynamical Downscaling of Seasonal Monsoon Rainfall Using Global & Mesoscale Models

Someshwar Das and Surya Kanti Dutta

Abs. No: 120

16:15 People's Perception on Climate Change Vulnerability of South-West Coastal Bangladesh

Dr. Md. Salequzzaman, Mahabub-Ur-Rahman, S. M. Tariqul Islam, Dr. M. M. Moniruzzaman, Md. Abdus Salam, Sayka Jahan and Md. Abul Kashem

Abs. No: 134

16:30 Adaptation to Climate Change Impacts through Rain Water Harvesting for Agriculture of Bangladesh

Md. Mafizur Rahman, Sazia Afreen and Mohammad Asad Hussain

Abs. No: 162

16:45 Effect of Climate Change induced Disasters for Hatiya and Sandwip Island in Bangladesh

Md. Mobassarul Hasan and Umme Kulsum Navera

Abs. No: 94

3/16/2009 Session 7 Room: **Media Bazaar** *Catchment Processes, Ecosystems and Quality of*

Chair: Prof. Nakagawa

Rapporteur: Prof. Munsur Rahman

9:00 Dispersion Pattern of The Ganges-Brahmaputra River Discharge in The Bay of Bengal

M. Shahab Uddin and Mohammad Zahedur Rahman Chowdhury

Abs. No: 98

9:15 Arsenic Leaching Characteristics of Biologically Produced Sludge

Md. Shafiquzzaman, Md. Shafiul Azam, Iori Mishima, Jun Nakajima and Quazi Hamidul Bari

Abs. No: 42

9:30 Numerical Study on Sediment Production under Different Meandering Angle of Rivers in Marshland

Hiroshi Yamada, Yasuyuki Shimizu and Ichiro Kimura

Abs. No: 124

9:45 Effects of Groundwater Arsenic Contamination on Irrigated Soil and Rice in Chapai Nawabganj, Bangladesh

M. Rafiqul Islam, M. Jahiruddin and Saidul Islam

Abs. No: 127

10:00 Flow Visualization and Scour Mechanism around Bridge Piers and Abutments

Upain Kumar Bhatia, Vikas Garg and Baldev Setia

Abs. No: 130

10:15	Scour Protection around Circular and Oblong Bridge Pier	Vikas Garg, Baldev Setia and D. V. S. Verma	Abs. No: 131
10:30	Assessment of Impacts of Flood Control Interventions on Ecosystem of Haors	S.M. Sanaul Kafi, Mashfiqus Salehin and Shahad Mahbub Chowdhury	Abs. No: 137
10:45	Approach to Assess Environmental Flow for the Karnaphuli River of Bangladesh	Sudip Kumar Pal, Asif ul Hoque and Iffat Tarannum	Abs. No: 138

<p>3/16/2009 Session 8 Room: Windy Town Chair: Mr. Md. Wahidur Rahman, Chief Engineer, Mondal</p>	<p>Urban Water Management Rapporteur: Dr. M. Shahjahan</p>
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9:00	Integrated Coastal Zone Management (ICZM) in Bangladesh	Nilufa Islam, Mohammad Alamgir and M. Aminul Haque	Abs. No: 167
9:15	Assessment of Urban Water Supply Situation: A Case Study in Khulna City Corporation Area	Md. Rezaul Karim and Gazi Mohammad Mohsin	Abs. No: 41
9:30	Study of Green Infrastructure Concept Design towards a Sustainable Development in Bandung Municipality	Grinaldo Dita and Robby Yussac Tallar	Abs. No: 47
9:45	Numerical Simulation of Inundation Flow Considering Stormwater Drainage Process in Urban Area	Kenji Kawaike, Hajime Nakagawa and Yohei Imai	Abs. No: 158
10:00	Stormwater Management in Kansas City, Missouri to Comply with EPA's Combined Sewer Overflow Control Policy	David M. Khan	Abs. No: 176
10:15	Numerical Modeling of Urban Flooding due to Storm Surge	Yoshihisa Kawahara, Yukihiro Kinashi and Tatsuhiko Uchida	Abs. No: 113
10:30	Development of a Flood Detection System for Management of the Kuala Lumpur Stormwater Management and Road Tunnel (Smart)	Jayson Peterson and Craig Ludlow	Abs. No: 76

<p>3/16/2009 Session 9 Room: Media Bazaar Chair: Mr. Gerrit J. Klaassen Islam</p>	<p>Catchment Processes, Ecosystems and Quality of Environment Rapporteur: Dr. G.M. Tarekul</p>
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11:30	Seasonal Variation of Fish Migration in Sariakandhi Fish Pass	Bijoy Kumar Ghosh and Anisul Haque	Abs. No: 44
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11:45	Experimental and Numerical Study on Dune Development and Transition Under Unsteady Discharge Condition	Akihiro Toyama, Satomi Yamaguchi, Wandee Thaisiam, Ichiro Kimura, Yasuyuki Shimizu and Sanjay Giri	Abs. No: 107
12:00	Modeling of Stage Discharge Curve of Indian River by Support Vector Machines	Arun Goel	Abs. No: 151
12:15	An Algorithm for Derivation of Design Rainfall Temporal Patterns for Short and Long Duration Storms	Ataur Rahman, Mazharul Islam and Touhid Bhuiyan	Abs. No: 163
12:30	Impact Assessment of Sea Level Rise on Coastal Flooding and Livelihood	Rubayat Alam, Zahirul Haque Khan, Md. Sharif Imam Ib-N-E Amir and Shume Akhter	Abs. No: 166
12:45	Environmental Challenges and Management of Water Pollution through Drainage Improvement Adjacent to Dhaka Mega City: A Case Study of DND Project	Murshed Ahmed, Md. Mustafa Kamal, Abu Sale Mohammad Tofahel Chowdhury	Abs. No: 170

3/16/2009	Session 10	Room: Windy Town	<i>Agricultural Water Management</i>
<i>Chair:</i>	Prof. M. Mirjahan		<i>Rapporteur:</i> Dr. Sujit Kumar Bala

11:30	A Study on Tubewell Spacing for Groundwater Management in Bangladesh	A.F.M. Afzal Hossain, Sardar M Shah-Newaz, M A Karim, Sabina Sadek	Abs. No: 104
11:45	Water Saving and Cost Reduction in Boro Rice with Alternate Wetting and Drying Irrigation Technology	Md. Rezaul Hasan, Abul Fazal M. Saleh, A.F.M. Afzal Hossain and S.M. Shah Newaz	Abs. No: 129
12:00	Study on the Irrigation Water Management in Cimpima Developed Swamp of Ramagana District in Rwanda	Canisius Kayitera, Suresh Kumar Pande	Abs. No: 16
12:15	Improvement of Drainage Condition for Proper Operation of Irrigation and Drainage System-A Case Study of Naotara Siphon in Teesta Barrage Project	Md. Hazrat Ali, A. F. M. Afzal Hossain, Zahirul Haque Khan and S M Shah-Newaz	Abs. No: 148
12:30	Sustainable Water Management for Irrigation Development using Surface Water and Groundwater Interaction Model: Case Study for Chalan Beel Area	Md. Jakir Hossain, Sabina Sadek, Sardar M Shah-Newaz and A. F. M. Afzal Hossain	Abs. No: 105
12:45	Irrigation Intervention as a Tool of Socio-Economic Advancement: A Case Study of the Kawraid River Rubber Dam Project, Gazipur, Bangladesh	Abu Jafar Md. Saleh and M. Shahjahan Mondal	Abs. No: 89

3/16/2009	Session 11	Room: Media Bazaar	<i>Flood Management</i>
<i>Chair:</i>	Prof. Monowar Hossain		<i>Rapporteur:</i> Prof. Munsur Rahman

14:00	1-10 Day Flood Forecasts under the Climate Forecasts Application	Abu Saleh Khan, Md. Sohel Masud &	Abs. No: 27
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Network (CFAN) Project	Md. Saiful Hossain	
14:15 Developing Flood Vulnerability Index for the Improvement of Knowledgebase for Flood Preparedness	Anjuma Tabassum Khan, Abu Saleh Khan and A. K. M. Zeaul Hoque	Abs. No: 31
14:30 Reduction of Vulnerability to Flood for Proposed Dhaka-Chittagong Expressway Project, Bangladesh	Abu Saleh Khan, Md. Sohel Masud, Md. Yousuf Mamun and Wahid Palash	Abs. No: 37
14:45 Flood Level Estimation and Conceptual Design of Barrier Using Mathematical Model	N. K. M. Nanseer and L.V. Talagala	Abs. No: 121
15:00 An Integrated Approach of Flood Damage Assessment of Dhaka City using Modelling and GIS	Farhana Ahmed, Zoran Vojinovic, Arthur Mynett and Malik Fida A. Khan	Abs. No: 125
15:15 Development of RIC-NAYS, A Free System for Supporting Numerical Simulation of Flow, Bed Deformation and Bank Erosion	Jiro Miyatake, Yasuyuki Shimizu, Kunio Ezaki and Yoshikazu Yoshida	Abs. No: 115

3/16/2009 Session 12 **Room: Windy Town**

Chair: Prof. A.F.M. Saleh

Agricultural Water Management

Rapporteur: Dr. Sujit Kumar Bala

14:00 Review on Water Management in Coconut	N. Chattopadhyay and A.B. Sharangi	Abs. No: 11
14:15 Water Management in Chilli and Sweet Pepper: A Review	Amit Baran Sharangi, Narayan Chattopadhyay and Pradip Kumar Sahu	Abs. No: 10
14:30 Shallow Tube Well Irrigation Business in Bangladesh: Field Study in Ghatail Thana of Tangail District	Md. Alauddin Hossain and Md. Abul Ala Moududi	Abs. No: 5
14:45 Effect of Irrigation with River Water Containing Heavy Metals on Soil and Rice Yield in Dhamrai Upazila, Dhaka	Masudur Rahman and M. Shahjahan Mondal	Abs. No: 178
15:00 Assessment of Optimal Yield and Crop Plans in Vedavathi Sub-Basin of Krishna River	A. D. Thube and D. K. Srivastava	Abs. No: 84
15:15 Assessment of Vulnerability of Drought and its Remedial Measures for Sustainable T. Aman Rice Production in the Selected Locations of Bangladesh	M A Sattar and Mst. Irin Parvin	Abs. No: 102

3/16/2009 Session 13 **Room: Media Bazaar**

Chair: Mr. Gerard Pichel

Flood Management

Rapporteur: Dr. M. Asad Hussain

16:00 Weather Insurance for Farmers: A Proposed Methodology for Insurance	Md. Sirajul Islam and Mizan R. Khan	Abs. No: 154
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against Crop Damage in the Context of Bangladesh

16:15	Sensitivity of Flood Damage Evaluation for Different Settings in Flood Vulnerability Assessment	Julian Eleuterio, Anne Rozan and Sylvain Payraudeau	Abs. No: 161
16:30	Design Streamflow Estimation for Ungauged Catchments in Victoria: Uncertainty Analysis using Boot Strapping	Ayub Hossain, Ataur Rahman and Khaled Haddad	Abs. No: 164
16:45	Natural Dam Failure and Estimation of Resultant Flood Hydrograph	Hajime Nakagawa, Ripendra Awal, Kenji Kawaike, Yasuyuki Baba and Hao Zhang	Abs. No: 169
17:00	Improvement of Existing Water Quality Index in Selangor, Malaysia	A.A. Mamun, S.N. Hafizah and M.Z. Alam	Abs. No: 179
17:15	Development of Least Maintenance Household Surface Water Treatment Filter	Md. Saiful Islam, Quazi Hamidul Bari, Mst. Nasrin Akter and Md. Forhad Hossain	Abs. No: 56

3/16/2009 Session 14 Room: Windy Town <i>Chair:</i> Prof. Mozzammel Hoque <i>Islam</i>	Water Information Management <i>Rapporteur:</i> Dr. G.M. Tarekul
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16:00	Sediment Assessment in Reservoirs using Satellite Remote Sensing	Prakash C Swain, H J Shiva Prasad and J B Mahapatra	Abs. No: 6
16:15	Assessment of meteorological drought using SPI model and GIS in Qom, Iran	H. Yazdanpanah and S. H. Tabatabaei	Abs. No: 12
16:30	GIS Application to the Groundwater Table Study of Barind Area	Md. Yousuf Mamun, Rubaida Islam Joya, Md. Tarikul Islam and Tanvir Ahmed	Abs. No: 30
16:45	Performance of Flood Control Works around Dhaka City during Major Floods in Bangladesh	Sujit Kumar Bala, AKM Saiful Islam, Jahir Uddin Chowdhury, Md. Rezaur Rahman, M. Anisul Haque, M. Shah Alam Khan and Mashfiqus Salehin	Abs. No: 39
17:00	Flood Inundation Map of Bangladesh using MODIS Surface Reflectance Data	Akm Saiful Islam, Sujit Kumar Bala and M. Anisul Haque	Abs. No: 112
17:15	Development of the Flood Inundation Map, Flood Hazard Map and Assessment using Microwave Remote Sensing and GIS	Roxana Hoque, Daichi Nakayama, Hiroshi Matsuyama and Jun Matsumoto	Abs. No: 159