

**Report  
on  
International Conference  
on  
Water and Flood Management  
ICWFM-2007**

**12-14 March, 2007  
Dhaka, Bangladesh**

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

June 2007

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## Acknowledgement

The International Conference on Water and Flood Management (ICWFM-2007) was organized as per to 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 organizing phase and during conference was of vital importance to organizing the conference. 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), and Center for Environmental and Geographic Information Services (CEGIS), in organizing the conference, are gratefully acknowledged.

At the same time the wholehearted support of BWDB and LGED in arranging the technical visits is highly appreciated. These visits have been valuable experience for the foreign participants.

The financial support of Japan Asian Friendship Society (JAFS) since the preliminary stage of organizing the conference is gratefully acknowledged. Also, the co-sponsorship of International Association of Hydraulic Engineering and Research (IAHR) in publicizing the conference is sincerely recognized.

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 faculties and staffs of IWFM and DWRE 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 March 15, 2006, in its 59<sup>th</sup> meeting, agenda no. 7, the Board of Governors of Institute of Water and Flood Management (IWFM), BUET decided to hold an international conference on water and flood management. Accordingly, International Conference on Water and Flood Management, ICWFM-2007 was held during 12-14 March, 2007. 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. 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 June 2006. 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. Accompanying Person Committee
11. Refreshment Committee
12. 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, Japan Asian Friendship Society and Center for Environmental and Geographic Information Services (CEGIS). An agreement between The Embassy of the Kingdom of the Netherlands and IWFM, BUET, regarding financial support, was signed on February 7, 2007.

Financial contribution was also made by the LGED who collaborated in organizing the event. Besides, technical visits were sponsored by BWDB and LGED. In addition, CEGIS provided logistics support.

Also, International Association of Hydraulic Engineering and Research (IAHR), was co-sponsor of the conference and provided support in publicizing the conference.

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. Members of IAHR received 10% discount. This fee covered registration materials, inauguration ceremony, and refreshment during conference, pre-conference paper volume and closing dinner. Besides, registration fee for foreign participants included technical visit. For accompanying persons, registration fee covered the inauguration ceremony, technical visit and closing dinner.

Table 1: Registration fee

Developed countries	U.S. \$300
Developing countries	U.S. \$150
SAARC countries	U.S. \$100
Accompanying person from abroad	U.S. \$75
Local participants	Tk.1500

### ***Financial assistance to participants***

A total of 24 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/icwfm>

## **Papers and Participants**

### ***Selection of abstracts of papers***

According to the first announcement deadline for abstract submission was 15 September 2006, notification of abstract acceptance 31 October 2006, deadline for registration 15 December 2006 and deadline for full-paper submission 15 January 2007. Finally, 280 abstracts were received from 31 countries.

These 280 abstracts were reviewed by 17 reviewers. A total of 181 abstracts were selected and 53 more were selected with some modifications. Respective authors were notified about the status of their abstracts as per schedule. A country-wise distribution of the received and accepted abstracts, with number of authors applying for financial assistance, is given in Table 2.

Table 2: Country-wise distribution of abstracts received and accepted, with number of authors requesting for financial support

Country	Number of abstracts received	Number of abstracts accepted	Number of authors requesting for Financial Support
Armenia	1	1	1
Australia	8	8	-
Austria	1	1	-
Bangladesh	119	98	-
Bulgaria	1	1	-
Canada	3	3	-
China	3	3	1
France	1	1	-
Germany	4	2	-
Ghana	1	1	1
India	47	34	27
Indonesia	1	1	1
Iran	29	23	5
Japan	22	21	-
Kuwait	1	-	-
Latvia	1	1	-
Malaysia	3	3	-
Netherlands	8	8	-
Nigeria	2	2	1
Oman	1	1	-
Pakistan	11	9	5
Russia	1	1	-
Singapore	1	1	-
South Korea	1	1	-
Sri Lanka	1	1	1
Switzerland	1	1	-
Syria	1	1	1
Tunisia	1	1	1
Uganda	1	1	1
UK	2	2	-
USA	2	2	-
Total	280	234	46

These abstracts were received under eight 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	32	21
Catchment Processes, Ecosystems and Quality of Environment	77	64
Coastal Zone Management	24	24
Flood Management	40	36
Management of Shared River Basin	7	5
Urban Water Management	28	19
Water Information Management	51	47
Water Policy and National Development	23	18

### *Pre-conference paper volume*

#### Format:

A format for the pre-conference paper volume 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.

#### Extension of deadline:

As per the first announcement the deadline for submission of full paper was 15 December 2006. Considering the political unrest in the country the deadline for full paper submission was extended to 31 January 2007.

A total of 125 papers out of 234 selected abstracts were received. Table 4 shows a country-wise distribution of the papers of ICWFM-2007. Table 5 shows a theme-wise distribution of the papers of ICWFM-2007. Among the selected papers, no paper was received in the theme 'Management of Shared River Basin'.

Table 4: Country-wise distribution of papers for ICWFM-2007

Country	Number of Papers
Australia	1
Austria	2
Bangladesh	65
India	15
Indonesia	1
Iran	5
Japan	17
Malaysia	2
Netherlands	6
Nigeria	1
Oman	1
Pakistan	4
Singapore	1
Switzerland	1
Tunisia	1
USA	2
Total	125

Table 5: Theme-wise distribution of papers for ICWFM-2007

Theme	Number of papers
Agricultural Water Management	9
Catchment Processes, Ecosystems and Quality of Environment	32
Coastal Zone Management	17
Flood Management	17
Urban Water Management	10
Water Information Management	28
Water Policy and National Development	12
Total	125



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. CDs including the conference papers and inaugural speeches are also being prepared.

### ***Number of participants***

A total of 144 authors participated during the conference including 66 participants from abroad. Apart from authors, professionals and delegates from Nepal, the Netherlands and Japan attended the conference. A total of fifty local members of various sub-committees of the conference also attended the conference. A complete list of participants is provided in APPENDIX-III.

### **Conference Program**

#### ***Distribution of registration kit***

Participants from Bangladesh collected their registration materials on 10 and 11 March, 2007 at the registration desk of IWFM, 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 12<sup>th</sup> to 14<sup>th</sup> of March began with an inaugural ceremony where around 300 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-II.

After recitation from the Holy Qur'an, Professor Md. Rezaur Rahman, Director of IWFM, BUET made a welcome speech. It was followed by an address from the Special Guest, Mr. Fritz Meijndert, Head of Development Co-operation, Embassy of the Kingdom of The Netherlands. Then Professor A. M. M. Safiullah, Vice-Chancellor of Bangladesh University of Engineering and Technology, made his address as the Chief Guest and announced the inauguration of the conference. Finally, Professor Jahir Uddin Chowdhury, Chairman of Organizing Committee, made his address. At the end of inaugural ceremony Professor Chowdhury handed over conference crests to the Chief Guest and the Special Guest.



Photo 1: Inaugural ceremony of ICWFM-2007



Photo 2: Conference Chair, Professor Chowdhury handing over the conference crest to the Chief Guest Professor Dr. A. M. M. Safiullah, Vice-Chancellor of BUET, during the inauguration ceremony



Photo 3: Some of the audience of the inauguration ceremony of ICWFM-2007

***Paper presentation in technical sessions***

Presentation of 125 papers were arranged by distributing them among twenty technical sessions on March 12 and 14. These technical sessions were accommodated by arranging three parallel sessions on each day. A special session was arranged at the end of the 1<sup>st</sup> day to introduce water management activities of BWDB and LGED. 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-2007

Theme	Number of sessions
Agricultural Water Management	2
Catchment Processes, Ecosystems and Quality of Environment	4
Coastal Zone Management	3
Flood Management	3
Urban Water Management	2
Water Information Management	4
Water Policy and National Development	2
Total number of technical sessions	20



Photo 4 and 5: Presentations during technical sessions of ICWFM-2007

### ***Technical visits***

Two parallel field visits were arranged on March 13, Tuesday. Due to space limitations only foreign participants were allowed in these trips. One of the trips was to the Meghna-Dhonagoda irrigation project organized by Bangladesh Water Development Board (BWDB). The other one was to the Rubber-Dam project situated at Sherpur and it was organized by Local Government Engineering Department (LGED). The river cruise to the Meghna-Dhonagoda project was via 'Annyesha', a ship from BWDB while visit to the Rubber dam was by road.

During the visits, participants were involved in discussion with the local people about the operation and maintenance of these projects. There were discussions about how the user groups were formed and how they provide feedback to the authority.



Photo 6: Participants visiting the Meghna-Dhonagoda irrigation project site.



Photo 7: Left: rubber dam, right: visitors to the rubber-dam project

### ***Closing Dinner***

A closing dinner for all the participants was held at a restaurant in Gulshan from 7:30 pm in the evening on March 14, 2007. Vice-chancellor of BUET, Professor Dr. A. M. M. Safiullah and some officials from collaborating and sponsoring agencies also joined the dinner. A cultural program preceded the dinner.

## **APPENDIX I: LIST OF COMMITTEE MEMBERS**

### **Organizing Committee**

Professor Jahir Uddin Chowdhury, IWFM, BUET  
Professor Abul Fazal M. Saleh, IWFM, BUET  
Professor M. Mirjahan, DWRE, BUET  
Dr. Md. Munsur Rahman, IWFM, BUET  
Dr. A.B.M. Faruquzzaman Bhuiyan, DWRE, BUET  
Mr. Md. Abdul Haque Sardar, WARPO  
Mr. Arzel Hossain Khan, WARPO  
Mr. Md. Abdul Wadud Bhuiyan, BWDB  
Mr. Bashir Uddin Ahmed, LGED  
Dr. Tarekul Islam, IWFM, BUET \*  
Dr. A. K. M. Saiful Islam, IWFM, BUET \*  
Dr. Mohammad Asad Hussain, IWFM, BUET

\* Dr. Tarekul Islam was the organizing secretary for the conference till his departure to Hiroshima University, Japan for post-doctoral fellowship. Dr. A.K.M. Saiful Islam was included in the organizing committee to take over the responsibility of the organizing secretary.

### **Technical Committee**

Professor Jahir Uddin Chowdhury, IWFM, BUET  
Professor Md. Rezaur Rahman, IWFM, BUET  
Professor M. F. Bari, DWRE, BUET  
Mr. H. S. Mozaddad Faruque, WARPO  
Dr. Ainun Nishat, IUCN  
Professor Abul Fazal M. Saleh, IWFM, BUET  
Professor Mohammed Ali Bhuiyan, DWRE, BUET  
Professor A.B.M. Badruzzaman, CE, BUET  
Dr. K.M. Nabiul Islam, BIDS

### **Local Advisory Committee**

Executive Director, Bangladesh Centre for Advanced Studies  
Director General, Bangladesh Haor and Wetland Development Board  
Chairman, Bangladesh Inland Water Transport Authority  
Director General, Bangladesh Institute of Development Studies  
Chairman, Bangladesh Unnayan Parishad  
Director General, Bangladesh Water Development Board  
President, Bangladesh Water Partnership  
Executive Director, Centre for Environmental and Geographic Information Services  
Director General, Department of Environment  
Chief Engineer, Department of Public Health Engineering  
Managing Director, Dhaka Water Supply and Sewerage Authority  
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  
President, The Institution of Engineers, Bangladesh



## **International Advisory Committee**

Professor Eelco van Beek, Delf Hydraulics, The Netherlands  
Mr. Ajaya Dixit, Nepal Water Conservation Foundation, Nepal  
Professor Thian Yew Gan, University of Alberta, Canada  
Professor Nimal Gunawardena, South Asian Consortium for Interdisciplinary Water Resources, India  
Professor Richard Hey, University of East Anglia, UK  
Professor Takashi Hosoda, Kyoto University, Japan  
Stephan J. Hug, Swiss Federal Institute of Aquatic Science and Technology, Switzerland  
Professor Shafiqul Islam, Tufts University, USA  
Professor Asis Mazumdar, Jadavpur University, India  
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  
Professor Nobuyuki Tamai, Kanazawa University, Japan  
Professor Tawatchai Tingsanchali, Asian Institute of Technology, Thailand  
Dr. Olli Varis, Helsinki University of Technology, Finland  
Dr. Saleh A. Wasimi, Central Queensland University, Australia  
Professor J. Richard Weggel, Drexel University, USA

## **Finance Committee**

Professor A.F.M. Saleh, IWFM, BUET  
Dr. M. Munsur Rahman, IWFM, BUET  
Dr. M. Shah Alam Khan, IWFM, BUET  
Mr. Bashir Uddin Ahmed, LGED  
Mr. Arzel Hossain Khan, WARPO  
Mr. Ahmadul Hassan, CEGIS  
Dr. Mohammad Asad Hussain, IWFM, BUET

## **Registration Committee**

Dr. 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

## **Session Management Committee**

Professor M. Anisul Haque, IWFM, BUET  
Dr. A.K.M. Saiful Islam, IWFM, BUET  
Dr. Faruquzzaman Bhuiyan, DWRE, BUET  
Mr. Mir Abdul Matin, CEGIS

### **Technical Visit Committee**

Professor M. Mirjahan, DWRE, BUET  
Mr. Bashir Uddin Ahmed, LGED  
Mr. Md. Abdul Wadud Bhuiyan, BWDB  
Dr. Mashfiqus Salehin, IWFM, BUET  
Dr. M. Shahjahan Mondal, IWFM, BUET

### **Foreign Participants Affairs Committee**

Professor M Mozzammel Hoque, IWFM, BUET  
Professor Mohammed Ali Bhuiyan, DWRE, BUET  
Dr. Sujit Kumar Bala, IWFM, BUET  
Mr. Arzel Hossain Khan, WARPO  
Mr. Moshiur Rahman, LGED  
Mr. Tareque Abdullah Al Fayaz, BWDB

### **Publication Committee**

Dr. M. Shah Alam Khan, IWFM, BUET  
Dr. M. Shahjahan Mondal, IWFM, BUET  
Dr. M. Ataur 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. Siddiqur Rahman, WARPO  
Mr. Zahidul Islam, DWRE, BUET

### **Internet Committee**

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

### **Inauguration Committee**

Dr. A.B.M. Faruquzzaman Bhuiyan, DWRE, BUET  
Dr. Umme Kulsum Navera, DWRE, BUET  
Dr. Mohammad Asad Hussain, IWFM, BUET  
Mr. Sultan Ahmed, CEGIS

### **Accompanying Person Committee**

Dr. Umme Kulsum Navera, DWRE, BUET  
Ms. Nazmun Naher Chowdhury, WARPO  
Ms. Nurjahan, LGED  
Ms. Jakia Akter, CEGIS

### **Refreshment Committee**

Dr. Mashfiqus Salehin, IWFM, BUET  
Mr. Nuruzzaman Sheikh, IWFM, BUET  
Mr. Md. Siddiqur Rahman, WARPO  
Mr. Robin Kumar Biswas, BWDB  
Mr. Sheikh Tareq Jaman, LGED  
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### **Transportation Committee**

Mr. Abdul Hai, BWDB  
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Dr. Ataur Rahman, DWRE, BUET  
Mr. A.K.M. Shahidul Islam, LGED  
Mr. Arzel Hossain Khan, WARPO  
Mr. Md. Abul Hossain, BWDB  
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## APPENDIX III: LIST OF PARTICIPANTS IN ICWFM-2007

### List of participants from Bangladesh

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3/12/2007 Session - 1 Room **Media-1** *Catchment Processes, Ecosystems and Quality of*

*Environment*

*Chair:* Mr. Hossain Shahid Moazzad Faruque, DG, BWDB *Rapporteur:* Dr. Md. Ataur Rahman

11:00	Dugwell and Deep Hand Tubewell Oriented Water Supply System in Arsenic Affected Areas of Bangladesh	Md. Shahzada Chowdhury Md. Shah Noor Mahmud Nasima Akter	Abs. No: 83
11:15	Prospects and Problems of Fisheries Development under the Small Scale Water Resources Development Projects	Md. Shahjahan Howlader Md. Nurul Islam	Abs. No: 118
11:30	Arsenic Pollution in the Groundwater of Chapai Nawabganj Pourashava Area: Insights from Stable Isotope and Tritium Investigation	Nasir Ahmed Pradeep K. Aggarwal Albert Tuinhof Khoda Bux	Abs. No: 82
11:45	Socio-Environmental Approach to Mitigation of Arsenic Contamination Disaster on Drinking Water in Bangladesh	Maiko Sakamoto Yosuke Fukushima Yoshimi Hagihara	Abs. No: 187
12:00	Arsenic Distribution and Characterization of Multi Layers Aquifer System in Bengal Delta for Sustainable use of Groundwater	Anwar Zahid M. Qumrul Hassan	Abs. No: 217
12:15	Diffuse Pollution Control – Malaysian Experiences	A.A. Mamun Z. Amir A. Idris M.Z. Alam S.A. Muyibi	Abs. No: 300
12:30	The Effect of Water Quality Disturbances on Phytoplankton Communities in Jakarta Bay, Indonesia	M. Feranita-Fachrul Herman Haeruman Ria Anggraini Listari C. Sitepu John Nurifdin Syach	Abs. No: 195
12:45	Assessment of Water Quality of the Peripheral River System Around Dhaka City for the Saidabad Water Treatment Plant	M. Hafizul Islam Md. Mafizur Rahman	Abs. No: 237

3/12/2007 Session - 2 Room **Media-2** *Coastal Zone Management*

*Chair:* Mr. Kazi Golam Mustafa, DG, WARPO *Rapporteur:* Dr. M. Shahjahan

*Mondal*

11:00	Tubular Solar Still - An Alternative Small Scale Fresh Water Management	K. M. Shafiul Islam Teruyuki Fukuhara Amimul Ahsan	Abs. No: 88
11:15	Physicomechanical Properties of Fine Grained Saline Soils During the Air Temperature Changes in Urmia Lake Embankment	Rasoul I. Zeynali	Abs. No: 49
11:30	Integrated Coastal Zone Management Plan	M.K. Alam	Abs. No: 197

<b>11:45</b>	Some Selected Environmental Components in Coastal Zone of Bangladesh for Future Potentiality	Biswajit Nandi Umme Kulsum Navera	<b>Abs. No:</b> 183
<b>12:00</b>	Assessment of Impact of Sea Level Rise on Coastal Zone using <i>Abs. No:</i> 124 Mathematical Modelling	Md. Nazibur Rahman  Zahirul Haque Khan Jalaluddin M.A. Hye Nasreen Mohal Md. Shakil Sahrion Salim Bhuiyan	
<b>12:15</b>	Seasonal Sea-level Forecasts and Reducing Vulnerability to Climate Hazards - Evidence from the U. S.-Affiliated Pacific Islands	M. Rashed Chowdhury Thomas Schroeder	<b>Abs. No:</b> 23
<b>12:30</b>	Impact of Sea Level Rise on Coastal Polders in Bangladesh	M.M. Awlad Hossain Ahmadul Hassan	<b>Abs. No:</b> 250
<b>12:45</b>	Assessment of Ecological Risk to the Mangroves of Sundarbans due to Sea Level Rise	Wahidur Rahman Rezaur Rahman	<b>Abs. No:</b> 262

**3/12/2007** Session - 3 *Room Media-1* **Catchment Processes, Ecosystems and Quality of Environment**  
*Chair:* Mr. Hossain Shahid Moazzaddad Faruque, DG, BWDB *Rapporteur:* Dr. Md. Ataur Rahman

<b>14:00</b>	On the Creation of Biotope and Improvement of Riverine Environment	Keiji Izuhara Satoshi Yamamoto Kenji Sawai	<b>Abs. No:</b> 207
<b>14:15</b>	Synthesized Evaluation of River Environment in Southern part of Japan	Satoru Sugio Youhei Souda	<b>Abs. No:</b> 180
<b>14:30</b>	Estimating Salinity Discharge and Source of Salinity in Wybong Catchment of the Hunter Valley, Australia	Falguni Biswas Ian White Ben Mcdonald	<b>Abs. No:</b> 239
<b>14:45</b>	Effectiveness of Spur-dikes in River Training Works: A Case Study along the Ganges in Bangladesh	Md. Munsur Rahman M Mozammel Hoque Anisul Haque Tarekul Islam Rezaur Rahman	<b>Abs. No:</b> 112
<b>15:00</b>	Effect of Bandal Spacing on Formation of Navigational Channels: Experiments	Uday Das Shamima Nasrin Munsur Rahman	<b>Abs. No:</b> 32
<b>15:15</b>	Effectiveness of Bandalling and Dredging for the Maintenance of Navigational Channel in the Jamuna River	Rumana Sharmin Md. Munsur Rahman Abdul Matin Emdadul Haque Ibrahim Hossain Abdur Razzak	<b>Abs. No:</b> 63
<b>15:30</b>	Arsenic Contaminated Drinking Water Causes Health Hazards in West Bengal, India	Amal Roy Chowdhury	<b>Abs. No:</b> 42

<b>15:45</b>	An Assessment of Trace Metal and Metalloid Contamination in Intertidal Sediment Cores of Sunderban Mangrove Wetland, India and Their Ecotoxicological Significance	Santosh Kumar Sarkar Mousumi Chatterjee Asokkumar Bhattacharya Bhaskar Dev Bhattacharya Kamala Kanta Satpathy	Abs. No: 97
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**3/12/2007** Session - 4 **Room Media-2**

**Coastal Zone Management**

*Chair: Mr. Kazi Golam Mustafa, DG, WARPO*

*Rapporteur: Dr ABM*

*Faruquzzaman Bhuiyan*

<b>14:00</b>	Assessment of Local Views on Water Logging and Its Solutions in a Polder Project of Bangladesh	Maqsd Hashem Sujit Kumar Bala	Abs. No: 156
<b>14:15</b>	Steps Towards Sustainable Water Management : Case Study of a Coastal Polder	Md. Amirul Hossain A.H.M. Kausher	Abs. No: 291
<b>14:30</b>	Case Studies for Sustainable Drainage Improvement under Tidal River Management in Khulna Jessore Area	Sharif U. Choudhury Zahirul Haque Khan	Abs. No: 89
<b>14:45</b>	Virtual Water Footprint in the Shrimp Industry of Bangladesh	Md. Salequzzaman Asif Iqbal Anushila Mazumder Md. Ahasan Rakib Md. Nazrul Islam Md. Nazim Uddin	Abs. No: 215
<b>15:00</b>	Improvement of Navigability of Mongla Port	Nasreen Mohal Salma Akhter Jalaluddin M.A. Hye Farhad H. Sarker	Abs. No: 101
<b>15:15</b>	An Investigation on Optimization of Entrance Channel of Mongla Port	Salma Akhter	Abs. No: 135

**3/12/2007** Session - 5 **Room VIP Lounge**

**Agricultural Water Management**

*Chair: Prof. Abul Fazal M. Saleh*

*Rapporteur: Dr. Umme Kulsum*

*Navera*

<b>14:00</b>	Application of Mathematical Modelling for Improved Drainage in Irrigation Project: A Case Study for Sagarkhali-Borobeela Drainage Project	AFM Afzal Hossain Md. Masud Hassan Sardar M. Shah-Newaz	Abs. No: 151
<b>14:15</b>	Application of a Mathematical Model for Irrigation Management in Teesta Barrage Project	Md. Hazrat Ali Jackson Roehrig	Abs. No: 153
<b>14:30</b>	Enhancing Water and Nutrient Use Efficiency Using Nanotechnology	Jahangir Abedi-Koupai Jaleh Varshosaz Mahsa Mesforoush A. Khoshgofar	Abs. No: 113
<b>14:45</b>	Development of Structure Operation System for Cross-Regulators on	Abdul Basit	Abs. No: 152

Teesta Main Irrigation Canal

S.M. Shah-Newaz  
A.F.M. Afzal Hossain

- 15:00** Irrigation Water Management on Canal Command Level: A Case Study of Lower Bari Doab Canal System  
Abdul Sattar Shakir  
M. Mubashir Qureshi  
Abs. No: 39
- 15:15** Water Management of Spice Crops in India: An Overview  
A.B. Sharangi  
N. Chattopadhyay  
Abs. No: 34

**3/12/2007** Session - 6 Room **Media-1** *Catchment Processes, Ecosystems and Quality of Environment*

*Chair: Prof. Taisuke Ishigaki*  
Rahman

*Rapporteur: Dr. M. Munsur*

- 16:00** An Experimental Investigation on Sediment Diversion Using Bottom Vanes  
M. Monowar Hosaain  
Md. Shahidullah  
K.M. Rahman  
G.J. Roijens  
C.A. Swart  
Erik Mosselman  
Abs. No: 214
- 16:15** Morphological Characteristics of Arial Khan River in the vicinity of Arial Khan Bridge in Bangladesh  
M. Monowar Hosaain  
Md. Zahidul Islam  
Sara Ferdousi  
Md. Ahsanul Kabir  
K.M. Rahman  
Abs. No: 219
- 16:30** Hydraulic and Morphological Aspects for Selection of a Bridge Site: A Case Study on the Surma River  
Asmot Ara Alam  
Md. Mouludul Islam  
Abs. No: 106
- 16:45** Effect of Upstream Storage Dam and Diversion Barrage on River - Wetland Connectivity in a Selected Area of the Surma and Kushiya River Basin  
A. B. M. Baki  
M. F. Bari  
M. I. Haque  
M. S. Masud  
A. S. Khan  
M. Marchand  
Abs. No: 92
- 17:00** Rainfall Observation with Highly Temporal and Spatial Density in the Northeastern Region of Indian Subcontinent  
Taiichi Hayashi  
Jun Matsumoto  
Toru Terao  
Md. Nazrul Islam  
Fumie Murata  
Abs. No: 290
- 17:15** Impact of Ship Breaking Activities on Coastal Water and its Ecosystem of the Bay of Bengal, Bangladesh  
Noman Ahmed Siddiquee  
Md. Hashibul Islam  
Abs. No: 266
- 17:30** Rain Water Harvesting: A New Approach to Recharge Aquifer  
Md. Mohasin  
Abs. No: 292

**3/12/2007** Session - 7 Room **Media-2**

*Coastal Zone Management*

*Chair: Prof. Muhammed Ali Bhuiyan*  
Faruquzzaman Bhuiyan

*Rapporteur: Dr ABM*



<b>16:00</b>	Effect of Dynamic Forces in Designing Embankment near Coastline in Bangladesh	Umme Kulsum Navera Biswajit Nandi	Abs. No: 249
<b>16:15</b>	Field Observations on Current Field in Near-Shore Region	Yasuyuki Baba Takao Yamashita Hajime Nakagawa	Abs. No: 281
<b>16:30</b>	Coupling of one Tropical Wetland to Sea With Groundwater Flux and Coastal Nutrient Enrichment	Joseph S. Paimpillil K.K. Balachandran T. Joseph	Abs. No: 137

**3/12/2007** Session - 8 **Room VIP Lounge**

*Chair: Prof. Abdul Sattar Shakir*

**Agricultural Water Management**

*Rapporteur: Dr. Md. Ataur*

Rahman

<b>16:00</b>	Institutional Factors for Augmenting Effectiveness of Irrigation in the Brahmaputra Valley in Eastern India	Mrinal Kanti Dutta	Abs. No: 273
<b>16:15</b>	Use of Pitcher Irrigation for Sustainable Crop Production in Water Scarce Areas	Altaf Ali Siyal Zubair Ahmed Abro Abdul Ghafoor Siyal	Abs. No: 17
<b>16:30</b>	Assessment of Groundwater Resources in Low Barind Area, Bangladesh	M. Azizur Rahman Jackson Roehrig	Abs. No: 321

**3/12/2007** Session **Room Committee-1** **Water Management Activities in Bangladesh**

*Chair: Prof. Jahir Uddin Chowdhury*

*Rapporteur: Dr. Umme Kulsum*

Navera

<b>17:30</b>	Water Management Activities in Bangladesh for <b>Large</b> Scale projects	Md. Abdul Wadud Bhuiyan
<b>17:45</b>	Water Management Activities in Bangladesh for <b>Small</b> Scale projects	Bashir Uddin Ahmed

**3/14/2007** Session - 9 **Room Media-1** **Catchment Processes, Ecosystems and Quality of**

**Environment**

*Chair: Prof. M. Mirjahan*

*Rapporteur: Dr. Md. Ataur*

Rahman

<b>9:00</b>	Hydro-Morphological Processes in the Meghna Estuary, Bangladesh	Marius Sokolewicz Teunis Louters	Abs. No: 317
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<b>9:15</b>	Threats of Sea Level Rise on Sundarbans Ecosystem	Ahmadul Hassan M.M. Awlad Hossain Fahmida Khatun	Abs. No: 264
<b>9:30</b>	Morphological Processes and Socioeconomic Effects of Extreme Floods - The Case Study of the Catastrophic Floods 2005 in Austria	G. Krapesch H. Habersack	Abs. No: 66
<b>9:45</b>	Rice and Fish Trade-Off in Resource Management	Ahmadul Hassan Ainun Nishat G. A. Chowdhury	Abs. No: 148
<b>10:00</b>	Pesticide Occurrence in Shallow Depths Tubewells in Sibpur Upazila, Bangladesh	Nepal C. Dey Lucky Ghose Muhammed A. Bhuiyan Asim K. Sajjan	Abs. No: 306
<b>10:15</b>	Impact of Gatero Delay Action Dam on Underground Water Level in Nal Area of Khuzdar, Balochistan, Pakistan	Abdul Khaliq Kurd Bazid Khan Shahnawaz Chandio	Abs. No: 51
<b>10:30</b>	Delineation of Northwest Parts of I.R. Iran into Homogeneous Precipitation Regions	Y. Dinpashoha	Abs. No: 12
<b>10:45</b>	Synoptic Basin Model for the Upper Meghna River	Kenji Okubo Yuichi Kochi	Abs. No: 127
<b>11:00</b>	Study of Freshwater Wetland Management of Southwestern part of Bangladesh A case study of Beel Dakatia, Dumuria, Khulna	Md. Humayun Kabir Khan Rubayet Rahaman Md. Zakir Hossain Md. Ashiq-ur-Rahman	Abs. No: 72

**3/14/2007 Session - 10 Room Media-2**

*Chair: Dr. Saleh A. Wasimi*

***Water Information Management***

*Rapporteur: Dr ABM*

*Faruquzzaman Bhuiyan*

<b>9:00</b>	Application of Artificial Neural Network in Modeling Stage-Discharge Relationship for Jamuna River	M. Khaled Akhtar	Abs. No: 139
<b>9:15</b>	Analysing Water Table Behaviour With Rainfall Variability Using Artificial Neural Network	Asit Baran Mazumdar Shukla Pramod K. R. Subbaiah	Abs. No: 8
<b>9:30</b>	A Novel Neuron Model Approach to Real Time Flood Forecasting	Kanishka Tyagi Rajat Jain H. J. Shiva Prasad	Abs. No: 211
<b>9:45</b>	Application of GIS to Identify Spatial and Temporal Extent of Critical Period for Rural Drinking Water Supply During Dry Season	S.M. Tanvir Hassan A.K.M. Saiful Islam	Abs. No: 108
<b>10:00</b>	Estimation of Potato Yield in and around Munshigonj Using Remote Sensing and GIS Techniques	S. K. Bala Md. Ali	Abs. No: 114

A.K.M. Saiful Islam

- 10:15** Flood Monitoring in the Meghna River Basin in Bangladesh Using Remote Sensing and Geographical Information System in Bangladesh Using Remote Sensing and Geographical Information System  
Roxana Hoque  
Daichi Nakayama  
Hiroshi Matsuyama  
**Abs. No:** 121
- 10:30** Computation of Arsenic Vulnerability in Bhanga Upazila Under Faridpur District of Bangladesh Through GIS Based Multicriteria Analysis  
Motaleb Hossain Sarker  
Mir. Abdul Matin  
**Abs. No:** 157
- 10:45** Assessment of Flood Vulnerability at Tarapur Union of Gaibandha by Using Geo-informatics  
S.M. Imrul Hasan  
G.M. Tarekul Islam  
Md. Mizanur Rahman  
**Abs. No:** 192

**3/14/2007 Session - 11 Room VIP Lounge**

**Chair:** Prof. M. Fazlul Bari

**Flood Management**

**Rapporteur:** Dr. Umme Kulsum

Navera

- 9:00** Seasonal Flood Potential – Bangladesh – A Scheme for an Advance Warning And Response Plan for Hazard Mitigation  
M. Rashed Chowdhury  
M. Neil Ward  
**Abs. No:** 18
- 9:15** Choice of Model Type in Stochastic River Hydrology  
M. Shahjahan Mondal  
Saleh A. Wasimi  
**Abs. No:** 87
- 9:30** Traditional Flood Management in the Kameoka Basin by Open Dyke System  
Taisuke Ishiaki  
Ry uji Kawanaka  
**Abs. No:** 36
- 9:45** Micro-Credit in Flood Management: A Case Study of Bangladesh  
Gulsan Ara Parvin  
Shah M. Ashraf ul Amin  
**Abs. No:** 142
- 10:00** Pre Monsoon Hydrology in the Flood Management of Haor Areas in NE Bangladesh  
Abu Saleh Khan  
Md. Sohel Masud  
Md. Azizul Hoque  
Emaduddin Ahmad  
**Abs. No:** 143
- 10:15** Flood Forecasting for Delivering Optimum Benefit in the Flood Preparedness of Bangladesh  
A.K.M. Zeaul Hoque  
Abu Saleh Khan  
Md. Salim Byuiyan  
Emaduddin Ahmad  
**Abs. No:** 144
- 10:30** Water Management in the Seasonal Wetlands of the North-East Region of Bangladesh  
Dhali Abdul Qaium  
M. Showkat Osman  
**Abs. No:** 200
- 10:45** Development of Environmental Impact Assessment Framework for Flood Protection Projects in Developing Countries  
Mumtaz Hussain  
**Abs. No:** 25

**3/14/2007 Session - 12 Room Media-1**

**Chair:** Prof. Nimal Gunawardena

**Water Policy and National Development**

**Rapporteur:** Dr. Md. Ataur

Rahman

<b>11:30</b>	Water Policy and Watershed Development Programme-The Indian Situation	Bhaswati Das	Abs. No: 186
<b>11:45</b>	Water Resource Potentials of Jharkhand State, India	Manoj Kumar Swati Pandey N.C. Mahanti	Abs. No: 181
<b>12:00</b>	Rural Water Supply and Management in Rural Nigeria: A Need for a Water Policy	Animam B. Osirike	Abs. No: 204
<b>12:15</b>	Issues on Safe Water Supply and Sanitation and Local People's Welfares in a Rural Bangladesh	Akira Sakai Kunio Takahashi Tofayel Ahmed Yoshimi Hagihara Maiko Sakamoto	Abs. No: 232
<b>12:30</b>	Developing Integrated Environmental Management Policies for Meghna-Dhonagoda FCDI Project in Bangladesh	M. Abdul Mohit A.Z.M. Moinul Islam	Abs. No: 81
<b>12:45</b>	Performance Evaluation of Sariakandi Fish Pass	Bijoy Kumar Ghosh Anisul Haque	Abs. No: 164

**3/14/2007 Session - 13 Room Media-2**

***Water Information Management***

***Chair: Prof. Hajime Nakagawa***

***Rapporteur: Dr. M. Munsur***

Rahman

<b>11:30</b>	Travel Time Calculation of Rainfall by Geographical Information System	M. Khaled Akhtar	Abs. No: 235
<b>11:45</b>	Near-shore Bathymetry Derived from X-Band Radar Images During a Storm Event.	G. M. Jahid Hasan Satoshi Takewaka	Abs. No: 53
<b>12:00</b>	Data Mining for Decision Making in Water Resources	Saleh A. Wasimi M. Shahjahan Mondal	Abs. No: 86
<b>12:15</b>	Decision Support System in Irrigation Water Management	A. F. M. Afzal Hossain Md. Zahirul H. Khan Sabina Sadek	Abs. No: 149
<b>12:30</b>	Application of Mathematical Model for Flood Hazard and Flood Management of Gumti River	Md. Masud Hassan Afzal Hossain M.A. Karim	Abs. No: 150
<b>12:45</b>	On the Recent Morphological Changes of Jamuna River at the Downstream of Jamuna Bridge	Abu Musa Md. Motaher Ahmed Yuichiro Fujita	Abs. No: 190
<b>13:00</b>	Numerical Modeling of Overbank Flow Processes in a Meandering Channel with Flood Protection Dykes	A.B.M. Faruquzzaman Bhuiyan Rezaul Haider Peter Wormleaton	Abs. No: 311

**3/14/2007 Session - 14 Room VIP Lounge***Chair: Prof. M. Monowar Hossain****Flood Management****Rapporteur: Dr. Umme Kulsum*

Navera

<b>11:30</b>	Analysis of Flash Flood in North Eastern Bangladesh	M. Javed A.N. Bhuiyan Flemming Jakobsen Md. Salim Bhuiyan	<b>Abs. No:</b> 47
<b>11:45</b>	Comparative Study of Maximum and Partial Duration Series in Flood Frequency Analysis in North of Iran	M. Reza Ghanbarpour Somaye Kazemikia Tahereh Besharati	<b>Abs. No:</b> 73
<b>12:00</b>	Evaluation of a Flood Proofing Project in Bangladesh	A.F.M. Ehasanul Huq Md. Rezaur Rahman	<b>Abs. No:</b> 111
<b>12:15</b>	Analysis of Erosion Vulnerabilities for Different Flood Events to Support Planning and Design of Erosion Protection Measures	M. Mahboob-ul-Kabir Pintu Kanungoe Fahima Shahadat Faruq A. Mohiuddin Jalaluddin M.A.Hye	<b>Abs. No:</b> 228
<b>12:30</b>	The Impact of Urbanization on the Wadi Channels in the Muscat Governorate	Fahad Said Al Farsi A. Saif A Kiyumi Saif Said Al Hinai	<b>Abs. No:</b> 319

**3/14/2007 Session - 15 Room Media-1***Chair: Mr. Md. Shahidul Hassan, Chief Engg., LGED****Water Policy and National Development****Rapporteur: Dr. Md. Ataur*

Rahman

<b>14:00</b>	Karnafuli River Basin Management	Emaduddin ahmad Md. Abdullah Galib	<b>Abs. No:</b> 208
<b>14:15</b>	Potential Threats of Power Sector on Water Resources	Ahmadul Hassan M. Aminur Rahman Md. Ruknul Ferdous	<b>Abs. No:</b> 238
<b>14:30</b>	Combined Water and Power Plant: A Solution to Freshwater Shortage in the 21st Century and Beyond	Fazle Mahbub M. N. A. Hawlader, A. S. Mujumdar	<b>Abs. No:</b> 299
<b>14:45</b>	Design Principles for the Redesign of Storm Water Management System in the Water Board District of Delfland (The Netherlands) Towards an Integrated Approach	Niki Frantzeskaki Anneke Van Der Kraan	<b>Abs. No:</b> 131
<b>15:00</b>	Some Reflections on Multipurpose River Basin Development and Strategies for Achieving Sustainable Solutions in Conflict Management of Water Resources	Murshed Ahmed	<b>Abs. No:</b> 161
<b>15:15</b>	Efficiency in Canal Irrigation Water Use and Conflict Management Through Water Users Association (WUA) in Hemavathy Command Area.	G. Nadigara  G. Sundaresan S. Murudaiah	<b>Abs. No:</b> 178

**3/14/2007 Session - 16 Room Media-2****Water Information Management***Chair: Prof. Takashi Hosoda**Rapporteur: Dr. M. Munsur*

Rahman

<b>14:00</b>	Forecasting of the Padma River Bank Erosion and Its Mitigation Measures	Faruq A. Mohiuddin M Mahboob-ul-Kabir Jalaluddin M.A. Hye	Abs. No: 233
<b>14:15</b>	Integrated Modeling of Landslide and Debris Flow	Raj H. Sharma H. Nakagawa	Abs. No: 55
<b>14:30</b>	Interlinking the Flood Forecast with the Inundation of a National Highway	Anjuma T. Khan Abu Saleh Khan A. K. M. Zeaul Hoque	Abs. No: 96
<b>14:45</b>	Effect of Empirical Functions of Non-linear K- Model on the Prediction of Flow Resistance in a Compound Channel	Md. Shahjahan Ali Takashi Hosoda Ichiro Kimura	Abs. No: 109
<b>15:00</b>	RANS Computations of Open Channel Flows with Multiple Piers	Ichiro Kimura W. S. J. Ujttewaal Takashi Hosoda	Abs. No: 115
<b>15:15</b>	Numerical Simulation of Unsteady Flood Flows in Case of Unknown Boundary Conditions	Shinichiro Onda Takashi Hosoda Takushi Uchida	Abs. No: 130
<b>15:30</b>	Development of Operational Policy for Multi-Reservoir Systems using Simulation Based Controlled Optimization: A Case Study in PAP System, India	S. Mohan S. Sivakumar	Abs. No: 243

**3/14/2007 Session - 17 Room VIP Lounge****Urban Water Management***Chair: Prof. Habibur Rahman**Rapporteur: Dr. M. Shahjahan*

Mondal

<b>14:00</b>	Decentralized Wastewater Management Systems	Kannan S. S.K. Singal A.A. Kazmi B. Kanaka	Abs. No: 253
<b>14:15</b>	Polder Management in Urban Areas	Sawarendro G. Pichel	Abs. No: 308
<b>14:30</b>	Flood and Sediment Disasters of Japan in July 2006 and Numerical Simulation of an Urban Flooding	Kenji Kawaike Hajime Nakagawa Yasuyuki Baba Keiichi Toda Nozomu Yoneyama	Abs. No: 236
<b>14:45</b>	Mathematical Modelling in Urban Water Management in Bangladesh	Bushra Nishat Mizanur Rahman, S. M. M. Rahman	Abs. No: 234
<b>15:00</b>	A Linear Cost Minimization Model for Dhaka Water Supply System Abs. No: 126	M. A. Rahman Shah	

M. Shah Alam Khan

15:15 Metered Water supply System: A Case Study

Quazi H. Bari  
K. M. Hasan  
R. Islam  
M. R. Haque  
M. S. Sarower

Abs. No: 202

**3/14/2007 Session - 18 Room Media-1**

***Flood Management***

***Chair: Prof. Mozzammel Hoque***

***Rapporteur: Dr. Md. Ataur***

Rahman

16:00 Necessity of Information Dissemination for a Safer Community Under Heavy Rainfall

M. Noguchi  
S. Suzuki  
Y. Kitajima

Abs. No: 220

16:15 Assessing the Effects of Compartmentalisation of Dike-Ring Areas on the Amount of Economical Damage and the Number of Casualties Related to a Flood

J. K. Leenders  
S. M. Groot  
B. Kolen  
H. V. Hemert

Abs. No: 309

16:30 Integrated Flood Management for Enhancing Resilience of Society toward Socio-Economic Development

Avinash C. Tyagi  
Hisaya Sawano

Abs. No: 163

16:45 Classification of Flood for Seasonal Flood Management

Ahmadul Hassan  
Ehsan H. Chowdhury  
Fahmida Khatun

Abs. No: 140

**3/14/2007 Session - 19 Room Media-2**

***Water Information Management***

***Chair: Dr. Saleh A. Wasimi***

***Rapporteur: Dr ABM***

Faruquzzaman Bhuiyan

16:00 Numerical Analysis Tools for Sediment Management in River Restoration

Hao Zhang  
Hajime Nakagawa  
Yasunori Muto

Abs. No: 141

16:15 Assessment of Perennial Surface Water Resources Availability in Highly Arsenic Affected Areas of Bangladesh Using GIS and Remote Sensing Technique

Motaleb Hossain Sarker  
Fahmida Khatun

Abs. No: 158

16:30 Role of Geoelectric Survey in Groundwater Modelling: A Case Study in Barind Area

A.S.M. Woobaidullah  
S.M. Shah-Newaz  
M. Masud  
Shahid H. Chowdhury  
M. Zohir Uddin

Abs. No: 155

16:45 Hydrology of Vembanad Wetland and Modelling of River Flows to the Wetland Using Neural Networks

Gopakumar R.  
Takara K.  
James E.J.

Abs. No: 284

17:00 The Value of Short-Term Hydrological Predictions for Operational Management of a Lowland Water System in the Netherlands

S.V. Weijts

Abs. No: 31

17:15 Formulating a Handy Tool for Decision Support System in Water Resources Management

Sudip kumar pal

Abs. No: 125

<b>3/14/2007</b>	Session -20	<b>Room VIP Lounge</b>	<b><i>Urban Water Management</i></b>
<b>Chair:</b>	<i>Dr. K.M. Nabiul Islam</i>		<b>Rapporteur:</b> <i>Dr. M. Shahjahan</i>

*Mondai*

<b>16:00</b>	Results of Application of Detention Ponds for Flood Control in Urban Basins	Shahab Daneshvar Alireza Shokoohi	<b>Abs. No:</b> 212
<b>16:15</b>	Optimizing Chlorination Scheduling in Drinking Water Network Using Multiobjective Genetic Algorithm	Issam Nouri Féthi Lebdi	<b>Abs. No:</b> 206
<b>16:30</b>	Urban Flood Protection Strategies	Cornelia Redeker Bianca Stalenberg	<b>Abs. No:</b> 119
<b>16:45</b>	Water Resources Management in Urban India	Debabrata Kar	<b>Abs. No:</b> 26