

*The Asian River Restoration Network (ARRN) is an Asian-based non-political network supporting the exchange of information related to environmental restoration of rivers and watersheds, through the promotion of collaboration between participants of the world. The network aims to contribute to the development of technology and knowledge for environmental restoration through its activities.*

<u>Contents</u>	<u>Pages</u>
➤ ARRN Event News.....	1
➤ Report from ARRN Board .....	3
➤ Research Activity .....	5
➤ Special Topics.....	6
➤ Membership Benefits (How to become an ARRN member).....	7

## ARRN Event News

### The 5th International Forum on Waterfront and Watershed Restoration (4 November 2008, Beijing CHINA)

On Nov. 4, 2008 (Tue.), the 5th International Forum on Waterfront and Watershed Restoration was held by ARRN and CRRN in Tsinghua University in Beijing, China. The past four international forums were held in Tokyo, but this international forum was held in Beijing as a special session of the 4th International Conference of the Asia Pacific Association of Hydrology and Water Resources (APHW) on Nov. 3 - 5. Many people participated in the forum from many countries mainly from Asia. In the forum, the lecturers (one Korean, one Japanese, and three people from China, the host country) introduced recent research themes and movements related to river environment restoration in each country.

In the questions and answers after the lectures, the participants in the international forum, particularly those who are working for water and river restoration in China, exchanged information and their views in the river environment field. After the lectures, a professor of Kanazawa Gakuin University, Nobuyuki Tamai, the chairperson of ARRN, summed up the forum and stressed the need for international cooperation toward improvement of river environments in Asia and the role of ARRN for that purpose.



Opening



Lecturers and ARRN members

Data of each lecture can be downloaded from the following ARRN website.

[http://www.a-rr.net/jp/en/arrn/letter/arrn\\_event\\_news/998.html](http://www.a-rr.net/jp/en/arrn/letter/arrn_event_news/998.html)

## The 5th International Forum on Waterfront and Watershed Restoration

Time and Date: November 4, 2008, Tuesday 8:45 - 12:00

Place: Tsinghua University, Beijing, China

Host: Asian River Restoration Network (ARRN), China River Restoration Network (CRRN)

### Program

8:45-10:15

Facilitator: Prof. Nobuyuki Tamai (Chair person of ARRN)

**Opening Address** Wang Xiaogang (IWHR)

**Lecture 1** Dr. Chang Wan Kim (Research Fellow, River & Coast Research Division, Korea Institute of Construction Technology)

*Correlation between Biotic Factors and Abiotic Factors - Focused on the Case Streams in Gyeonggi District, Korea*

**Lecture 2** Prof. Yuji Toda (Nagoya University)

*Development of Eco-compatible River Basin Management toward Nature Restoration - Case of Ise Bay River Basin -*  
10:30-12:00

**Lecture 3** Prof. Dong Zheren (China Institute of Water Resources and Hydropower Research)

*Theories and practices of river restoration*

**Lecture 4** Prof. Wang Zhaoyin (State Key Laboratory of Hydrosience and Engineering, Tsinghua Univ.)

*River training and restoration*

**Lecture 5** Prof. Chang Jianbo (Institute of Hydroecology, Ministry of Water Resources and Chinese Academy of Sciences)

*Ecological Requirements in Operation of the Three Gorges Project*

**Closing Address** Prof. Nobuyuki Tamai (Chair person of ARRN, Professor Emeritus of The University of Tokyo)

## ARRN/IAHR Joint Seminar on Ecohydraulics and Environmental Hydraulics (16 September 2008, Tokyo JAPAN)

On September 16<sup>th</sup>, 2008, Asian River Restoration Network (ARRN) invited Prof. Peter Goodwin and Prof. Joseph Lee, Vice President of International Association for Hydraulic Engineering and Research (IAHR), to give lectures on latest research activities in the field of Ecohydraulics and Environmental Hydraulics.



Opening Address by Prof. Tamai, IAHR/ARRN President

### Lecturers:

Prof. Peter Goodwin, Vice President of IAHR, University of Idaho

Prof. Joseph Lee, Vice President of IAHR, University of Hong Kong

**Date:** 16th September 2008, 13:30-17:20

**Venue:** Faculty of Engineering, University of Tokyo (Tokyo, Japan)



Presentation

After the opening remark by Prof. Nobuyuki Tamai, ARRN/IAHR President, Prof. Peter Goodwin gave a lecture entitled "New Trends in Hydro-Ecological Engineering Incorporated with Hydroinformatics", then Prof. Joseph Lee presented his latest research activities entitled "Recent Research Problems Related to Ocean Outfalls in Hong Kong". In the general discussion held after lectures, participants exchanged opinions with guest speakers, and both lectures encouraged engineers and researchers in the audience to promote further cooperation with ARRN and IAHR activities.

## Report from ARRN Board

### 1st ARRN Information Committee (24 September 2008, Beijing CHINA)

The 1st ARRN Information Committee was held at the China Institute of Water Resources and Hydropower Research, Ministry of Water Resources in Beijing, China, on September 24, 2008, AM.

The issues discussed in this committee include; policies for future actions of ARRN; means to exchange information on river restoration among ARRN members; and how to facilitate each country's network (RRN).

The results were incorporated into the agenda of the 3rd ARRN Governing Council meeting held in November 2008 in which the action policy of ARRN was discussed.



#### ■ Participants

(Information Committee Members)

Dr. Wengen Liao (Deputy Director, Department of Water Environment, China Institute of Water Resources and Hydropower Research (IWHR), Ministry of Water Resources)

Dr. Hong Koo Yeo (Senior Researcher, Korea Institute of Construction Technology (KICT))

Dr. Kazumasa Ito (Senior Counselor, Foundation for Riverfront Improvement and Restoration (RFC))

(ARRN Secretariat)

Akira Wada, Masafumi Ito (Foundation for Riverfront Improvement and Restoration (RFC))

(Observers)

Ms. Zhimin Meng (Secretary-General of China River Restoration Network, Senior Advisor on International Affairs IWHR, Ministry of Water Resources, Former Manager of International Division, Ministry of Water Resources) Dr. Jing Peng (Director, Division of International Cooperation, IWHR), Dr. Dongya Sun (Research Center on Flood and Drought Disaster Reduction, IWHR), Ms. Iris Zhou (Division of International Cooperation, IWHR), Dr. Kyu Chang Oh (Director, Dongbu Engineering Co., Ltd, Korea)

### 1st ARRN Technical Committee (24 September 2008, Beijing CHINA)

The 1st ARRN Technical Committee was held also at the China Institute of Water Resources and Hydropower Research, Ministry of Water Resources in Beijing, China, on September 24, 2008, PM.

The issues discussed in this committee include; technical information in the field of river environment that should be shared among ARRN; and the framework of the guideline for river restoration in Asia that is to be established as an achievement of the objective of ARRN.

Based on the results of this discussion, ARRN Secretariat will start working on formulation of the guideline while further reflecting the results of future discussions among China, Japan, and Korea.



#### ■ Participants

(Technical Committee Members)

Dr. Yangwen Jia (Department of Water Resources, China Institute of Water Resources and Hydropower Research (IWHR), Ministry of Water Resources)

Dr. Kyu Chang Oh (Director, Dongbu Engineering Co., Ltd, Korea)

Dr. Kazumasa Ito (By proxy: Senior Counselor, Foundation for Riverfront Improvement and Restoration)

(ARRN Secretariat)

Masafumi Ito, Akira Wada (Foundation for Riverfront Improvement and Restoration (RFC))

(Observers)

Dr. Dong Zheren (GWP Chinese Representative, Senior Advisor, IWHR), Dr. Jing Peng (Director, Division of International Cooperation, IWHR), Dr. Dongya Sun (Research Center on Flood and Drought Disaster Reduction, IWHR), Ms Iris Zhou (Division of International Cooperation, IWHR), Dr. Hong Koo Yeo (Senior Researcher, Korea Institute of Construction Technology (KICT))

### 3<sup>rd</sup> ARR N Governing Council (4 November 2008, Beijing CHINA)



On Nov. 4, 2008 (Tue), the 3<sup>rd</sup> ARR N Governing Council Meeting was held at the China Institute of Water Resources and Hydropower Research (IWHR), the CRRN secretariat in Beijing.

At the beginning of the meeting, the current chairperson, Prof. Nobuyuki Tamai (a professor of Kanazawa Gakuin University, a professor emeritus of the University of Tokyo, president of IAHR) was reappointed as the incoming chairperson at the expiration of the his term of office (two years) under the agreement of Japan, China, and Korea. The activities of this year were then reported and discussed and opinions were exchanged in terms of ARR N charter, policy for activities next year, the place to hold the international forum next year, and how to establish the river restoration guideline. As a result of this meeting, it was decided to hold the 2009 ARR N international forum in Korea in summer 2009 and distribute an interim report of the reference guideline developed by ARR N at the 5<sup>th</sup> World Water Forum (to be held in March 2009 in Turkey.)

#### ■ Participants

##### Chairperson:

Prof. Nobuyuki Tamai (ARR N Chair, )

##### CRRN(China River Restoration Network):

Dr. Dongya Sun(IWHR), Dr. Wengen Liao (IWHR),  
Dr. Kewang Tang(IWHR)

##### KRRN(Korea River Restoration Network):

Dr. Chang Wan Kim (KICT), Dr. Hong Koo Yeo (KICT)

##### JRRN(Japan River Restoration Network):

Dr. Junzo Sago (RFC), Dr. Kazumasa Ito (RFC)

##### ARR N Secretariat:

Mr. Masafumi ITO, Mr. Akira WADA, Mr. Michiya TANNAI

##### Observer:

Dr. Xiaogang Wang (IWHR), Dr. Zheren Dong(IWHR),  
Dr. Peng Jing (IWHR)

## Formulating a Reference Guideline on River and Watershed Restoration

At the nature restoration session in The 4<sup>th</sup> World Water Forum in 2006, necessity to develop an international network and to formulate a river restoration guideline was proposed.

### Session output” on 4th World Water Forum’s “River Restoration in Asian Monsoon Region”

- 1) River restoration is of vital importance to socio-economic sustainable development in parallel with flood and water use management.
- 2) Basin is a basic unit for river environment management.
- 3) Establishing suitable methodological technology for river restoration that suit for Asian monsoon region is necessary.
- 4) In Asia monsoon region, human-influence to a cultural landscape is harmonized with the ecosystem traditionally.
- 5) It is important to develop a database of projects and knowledge of international experts in river restoration, and this activity should be supported by engineers, scientists, ecologists, managers and public.
- 6) It is urgent to establish a river restoration guideline suitable for the Asian monsoon region for countries with similar social and natural conditions.

The above 5) and 6) are main purposes of ARR, and ARR is trying to raise recognition of 1) and 2) in Asian monsoon area through activity 5). In addition, ARR achieves 3) and 4) by undertaking technical contribution through activity 6). 5) and 6) are main purposes of ARR. ARR raises recognition of 1) and 2) in Asian monsoon area through activity 5) by ARR. In addition, ARR achieves 3) and 4) by undertaking technical contribution through activity 6) to create rich water environment in Asia.

In response to this, formulating a guideline for river/watershed restoration in Asian region is being positioned as one of important roles of ARR, who is currently working on this task.

In 2008 onward, ARR Technical Committee consisting of experts from three countries of China, Korea and Japan have regular discussions on formulation of the reference guideline, and such results will be made to the public periodically.

ARR secretariat is now undertaking the preparation for the 1st edition of ARR reference guideline on river restoration based on the output of 1st Technical committee and each RRN’s suggestion, and ARR secretariat will distribute it in 5<sup>th</sup> WWF in Turkey.

### Summary of ARR Reference Guideline establishment

- Target people: Those engaged in river/watershed restoration in Asian countries.
- Content: Based on the guideline established in the session on Nature Restoration at the 3rd World Water Forum in March 2003, ARR expands the content by incorporating viewpoints and case introductions of urban river restoration as a specific feature of Asia.
- Task Force: ARR Secretariat incorporates and summarizes the results of discussion of ARR Technical Committee consisting of experts from China, Korea and Japan.
- Others: Progress of guideline formulation will be posted on ARR website. Interim report will be publicized proactively on the occasion of the World Water Forum and such.

As a basis of formulating the guideline, ARR has collected existing guidelines on river restoration to reach about 70 kinds. ARR Secretariat will improve the web environment in order that these existing guidelines can be accessed.

URL for the existing guideline (Japanese only so far): <http://www.a-r-r.net/jp/book/guideline/index.html>



ARRN/JRRN website

## Special Topics

### Prof. Nobuyuki TAMAI was re-nominated as the next term of the ARRN chairperson

Prof. Nobuyuki TAMAI was re-nominated as the next term of the ARRN chairperson by ARRN Governing Council in Nov. 2008. Prof. TAMAI accepted to be chairperson of ARRN next-two years from Nov. 2008 to Oct. 2010.



### ARRN members participated in 4<sup>th</sup> APHW Conference in Nov. 2008

The 4<sup>th</sup> APHW (Asia Pacific Association of Hydrology and Water Resources) conference was held on 3-5, November 2008 in Beijing CHINA, and ARRN secretariat presented network activities and trend of Asian river restoration.

Participants held interest in the presentation, and expectations to the ARRN were described by many Asian specialists in the conference.

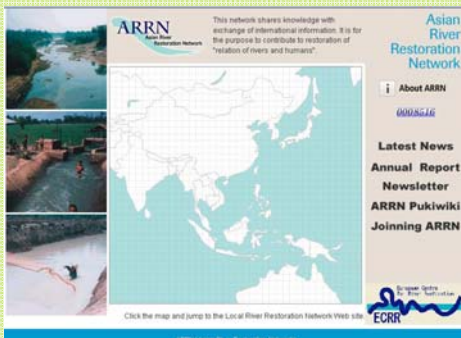
### 6<sup>th</sup> ARRN International Forum will be held in summer in Korea

The 6<sup>th</sup> ARRN International Forum will be held in Korea in summer season including one-day field visit. Detailed information will be appeared on ARRN website.

URL: <http://www.a-r-r.net/jp/en/arrn/letter/index.html>

### ARRN website will be renewed by June 2009

ARRN currently opens the website and will be renewed by June 2009, making available of database functions for past event information and formulating guidelines on river watershed restoration.



ARRN website: <http://www.a-r-r.net/>

### Website of KRRN and CRRN will be set up in 2009

#### ■ KRRN: Korea River Restoration Network

KRRN has already registered a new KRRN website, and will be set up in 2009.

#### ■ CRRN: China River Restoration Network

CRRN has already registered a new CRRN website, too. This website is under construction and will be in operation in 2009. State of the arts in Chinese river restoration, esp. the technical progresses in these aspects will be introduced and generalized on this Website.

### Major river restoration projects in Japan will be uploaded to JRRN website by March 2009

JRRN has been collecting case studies of river restoration projects in Japan, and they will be uploaded to JRRN website by March 2009.



JRRN website: <http://www.a-r-r.net/jp/en/>

## Membership Benefits (How to become an ARRN member)

Joining the ARRN is Free!

To become member of ARRN, please contact to [secre@a-rr.net](mailto:secre@a-rr.net) by email.

### Membership Benefits

- Easy obtaining of domestic and foreign information on river restoration through website, email, and direct contact to ARRN secretariat or other ARRN members as following;
  - ✓ Latest news, topics, projects, experiences, lessons, case studies
  - ✓ International and domestic events such as seminar and workshops
  - ✓ Standard books, technical guidelines, video images, etc.
- Holding opportunity to introduce member's organization and their activities to other ARRN members
- A coordinated business with various foreign countries or organizations
- Holding management support such as international seminar, workshops and establishment of regional river restoration network by ARRN secretariat

### Possible Tasks

- (1) Members will participate in ARRN with commitment to use their own resources and to work effectively in partnership with other members that are collaborating in the network. Members will support the objectives of ARRN described in the charter. (<http://www.a-rr.net/charter.html>)
- (2) Members can freely inspect the Web site, and moreover, useful information on river restoration in your organization and your region can be freely sent through the Web site for other members.
- (3) Members positively join for ARRN events such as international forum and the workshop by each RRN sponsoring. Also, every member can hold original workshop by receiving the backup of ARRN or RRN.
- (4) Members cooperate positively when the specialist's technical advice is required or the advanced case investigation committee is sent to another region.
- (5) Members share the information sent by ARRN with related persons in your organization.

### Procedure for joining ARRN

- (1) An organization which wants to join ARRN is requested to submit a membership application form by email.
- (2) The membership application form submitted by the organization is judged by the Secretary General and the Chairperson of ARRN.
- (3) After the Chairperson of ARRN approves the membership application form, the organization becomes the ARRN member as a Non-RRN organization.
- (4) ARRN secretariat will send email soon to the contact person named in the application form.
- (5) When plural groups gathered in a certain country or regions, the ARRN secretariat supports the establishment of each RRN. The establishment of new RRN will be judged by ARRN governing council meeting.

Note) In a country/region which RRN secretariat has already established, applicants to ARRN should be registered through the RRN secretariat. (China, Korea, and Japan)

ARRN Membership Application Form for organization (MS-WORD:601kB) is available here.

<http://www.a-rr.net/jp/en/arrn/docs/appform.doc>



## Asian River Restoration Network (Secretariat)

Technical Coordination & Cooperation Division  
Foundation for Riverfront Improvement and Restoration (RFC)

Ichibancho FS Bldg. 3rd Floor, 8 Ichibancho, Chiyoda-ku, Tokyo, JAPAN, 102-0082  
TEL: +81-3-3265-7121 FAX: +81-3-3265-7456 E-mail: [secre@a-rr.net](mailto:secre@a-rr.net) Website: <http://www.a-rr.net/>



Japan River Restoration Network (JRRN) has a role of ARRN Secretariat from Nov. 2006 to Oct. 2010. JRRN Secretariat is managed by Foundation for Riverfront Improvement and Restoration of JAPAN (RFC). <http://www.a-rr.net/jp/en/>