



**Asian River Restoration Network**

# Annual Report 2007



## Message from the Chairperson of the ARRN



It has already been one year since Asian River Restoration Network (ARRN) was established. We would like to express our sincere gratitude to all who have supported ARRN activities including the members. On behalf of the ARRN, I am pleased to present this "Annual Report 2007" documenting the achievements and activities of ARRN during the past year.

ARRN was jointly established by the concerned agencies in Japan, Korea and China with an aim to exchange knowledge and technical information on river restoration as well as to provide opportunities for groups and individuals to share and exchange their knowledge and experiences in the field, which would enable the participants to improve their knowledge and techniques through interaction.

In the past year, ARRN has promoted its role of providing and transmitting relevant information through website and newsletter as well as on the occasions of international forum, workshop and academic conference. In doing so, we have been committed to provide up-to-date topics by collecting necessary information from a variety of media and presenting them at the earliest stage possible. We believe that ARRN can contribute to the progress of river restoration techniques particularly suitable for Asia by collecting substantial information such as on the natural form and functions of rivers and the relation between rivers and cities.

We plan to continuously move ARRN activities forward with a view to enhancing the sharing of information on river restoration techniques. For this, we would greatly appreciate your continued understanding and support.

Chairperson of ARRN

Dr. Nobuyuki TAMAI

Professor, Kanazawa Gakuin University

Professor Emeritus, University of Tokyo

President of International Association of Hydraulic Engineering Research (IAHR)

# Table of Contents

Message from the Chairperson of the ARRN

Table of Contents

1. Outline of Asian River Restoration Network .....	1
1) Background of the ARRN Establishment .....	1
2) ARRN Objective .....	2
3) Management Structure .....	3
4) Roles of the Secretariat and General Participants .....	5
5) ARRN Charter .....	7
6) Advantages of joining ARRN .....	9
2. 1 <sup>st</sup> ARRN Governing Council Meeting (November 8, 2006) .....	10
3. ARRN Establishment Ceremony (November 9, 2006) .....	13
4. Major Activities .....	15
1) Summary of Activities .....	15
2) International Forum .....	16
3) Regional Workshop .....	19
4) Website .....	21
5) Newsletter .....	23
6) News mail .....	24
7) Preparing Guideline for River Restoration .....	25
8) Public Relations .....	26
9) Advisory Committee / Preparatory Meeting .....	31
10) Others .....	34
5. ARRN Members .....	35

# 1. Outline of Asian River Restoration Network

## 1) Background of the ARRN Establishment

The "River Restoration in Asian Monsoon Region" session on 4th World Water Forum was cosponsored by three countries of China, Japan and Korea. In the session, panel discussion was held between the representatives of Malaysia and UNESCO-IHE additionally to that of three countries. At the end of the discussion, following terms were proposed as the conclusion.

- It has been realized that river restoration is of vital importance to socio-economic sustainable development in parallel with flood management and water use management.
- It is necessary to recognize that the basin as a basic unit for management, that the river environment is dynamic, and that the environment of the various rivers is maintained by dynamic disturbance.
- It is necessary for the countries in Asian monsoon region to establish the suitable methodology and technology for river restoration, considering dense population, frequent and severe flooding, and abundant rice paddy.
- In Asian monsoon region human-influence to a cultural landscape is harmonized with the ecosystem traditionally. Those landscapes that have been modified by humans over long periods are often also important for nature as well as culture.
- It is important to develop a database and Asian network of projects and knowledge of international experts in river restoration. River restoration is a multi-disciplinary and multi-organizational task that should be supported by river engineers, environmental scientists, ecologists, water managers and the public.
- It is urgent to establish a river restoration guideline suitable for the Asian monsoon region as a reference for countries with similar social and natural conditions.

(Quote from "Session output" on 4th World Water Forum's "River Restoration in Asian Monsoon Region")

As mentioned above, the necessity of cooperating network, data base of the river restoration and river restoration technical guideline suits for an Asian monsoon region was proposed. Under this circumstances, Asian River Restoration Network (ARRN) was established in November 2006.



ARRN Establishment Ceremony



## 2) ARRN Objective

Besides the object of flood control and water use, primarily river which use to be basic necessities of human life had functions such as source for agriculture, fishery, and transportation of materials, has been formed the core of community for living and industrial activities. However due to the economic development in basin lately, population has been concentrated along river bank which in turn damaged the purification ability of the river. The worsening of pollution, river environment and the loss of culture values have been the talking point lately.

Based on these background settings, predecessor European and American ways of restoring river's original properties like ecosystem and purification ability are being approached. Besides that, some movements also seen in Asian countries aiming to recover lost abilities and restore the environment of rivers, and social values of a river is being improved. So it is time to have an open organization that cultivates better techniques on environment restoration and preservation works as well as enabling the exchange of information such as case, method, related publication and researchers' knowledge of restoring works especially on Asian rivers and basins which have similar climate and topography. Therefore, "Asian River Restoration Network (ARRN)" is to be established as an organization which basically encourage the participation of many without any conditions so that the contribution and collection of information can be done consequently more information can be gathered as well as the community can be expanded which will contribute to the development of river restoration techniques that suits Asia's rivers.

The objective of ARRN is to have an international organization that enables information on all kind of field about rivers and basins to be exchanged smoothly. The exchanging of ideas between participants through this organization about problem solving and promotion of manpower trading and technology trading etc are considered as the important functions of this organization. Therefore, besides organizing international forum and workshop, ARRN which too enable the exchanging of information through website about restoration of rivers and watersides in Asia as well as the rest of the world are to be created and managed. In addition, a restoration guideline which can be applied to Asian rivers and basins as well as can be used among participants is to be created.

In the future, the dispatch of latest information on case study and environment restoration will be carried out through the organization of seminar and meeting on rivers and waterfront.

### 3) Management structure

The management structure of ARRN is expected as followed.

#### **River Restoration Network (RRN)**

ARRN is organized with cooperation of a domestic network in each participating countries / regions, and so called as the management secretariat on a domestic network in those countries to be "River Restoration Network (hereafter, RRN) " generically. As for a domestic network, a free activity in home countries or in local region is encouraged.

#### **Governing Council**

The operating policy of ARRN is decided by "Governing Council" that consists by the representative of the Council in each RRN organization. The Council is summarized by the chairman approved in the Council, and resolves the activity plan and the budget planning, etc. of the year.

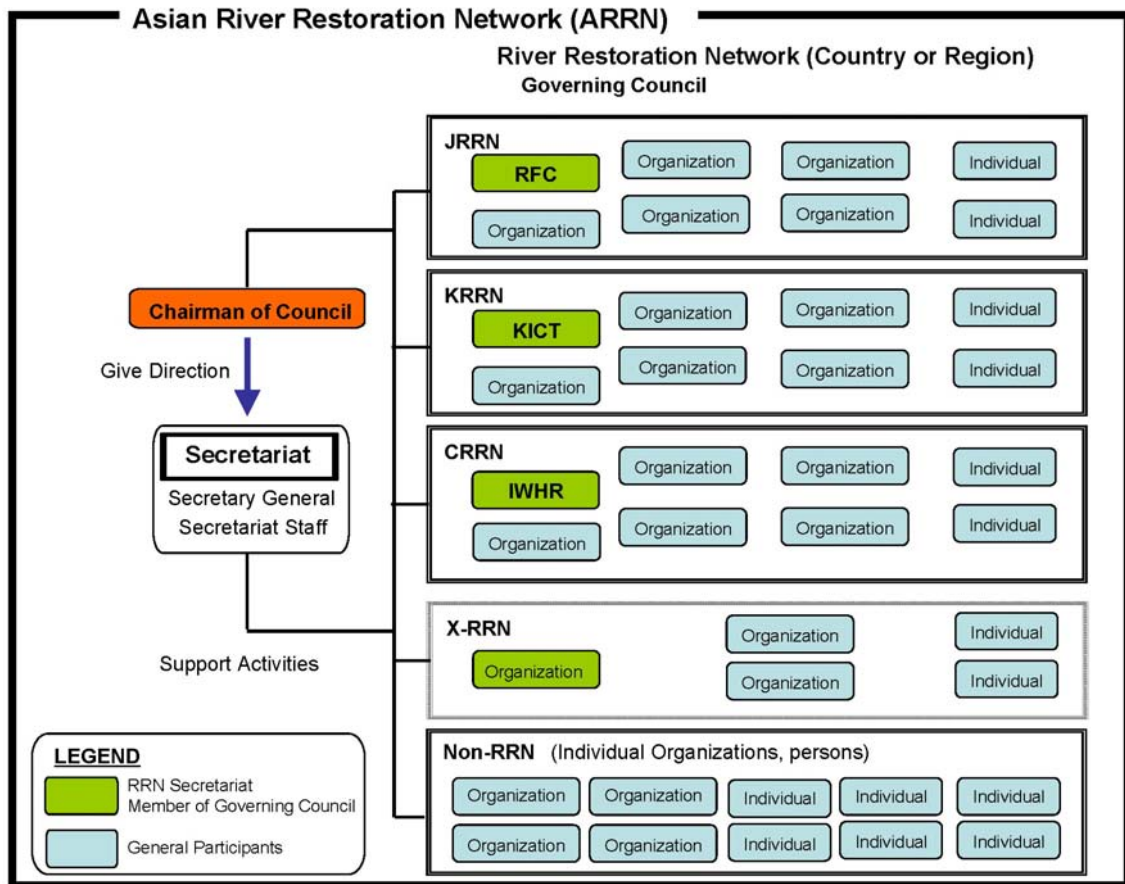
The representatives of every RRN organization, circled by blue dot line meaning of a member of the assembly consist the Council.

#### **Secretariat**

The Council is administrated by the "management secretariat" resolved to the management conference. The management secretariat accomplishes the management conference and various ARRN activities.

#### **General Participants**

General participants are individuals or groups, who or which participate in event such as forums and uses profit of Web site. General participants need to register participation according to the rule that domestic RRN organization provides and assumes the generic name of the person who declares participation in ARRN.



Structure of the ARRN



Seoul, KOREA (May 20, 2006)



Eniwa, JAPAN (Sep. 9, 2007)

#### 4) Roles of the Secretariat and General Participants

##### Management Secretariat

###### a. Management Conference exhibition

As a rule, the secretariat holds the governing Council once a year and also for international forum be held by match.

An international forum, the co-sponsoring event of the RRN organizations, is a place where information exchanged for the lecture about the policy and the latest research for river restoration.

###### b. ARRN Web site management

The secretariat is responded for updates of ARRN Web site.

###### c. The guideline preparation

Organization for the guideline consideration is still under examined.

###### d. News letter distribution widely

The secretariat makes newsletter regularly based on collected information, and distributes it to the subscriber with e-mail. Publishing information on the newsletter is made as follow.

- Information of event such as seminar, workshop and more, that ARRN participants hold.
- Introduction of technological information for river restoration.
- Additionally, introduction of all information that relates to river basin restoration.

Cooperation of participant is needed for the dissemination.

###### e. Be in charge of general participants data base

The management secretariat manages ARRN and the RRN participant's list.



3rd ARRN International Forum (Nov. 9, 2006)





Beijing, CHINA (Aug. 28, 2007)



Kaohsiung, TAIWAN (Jun. 25, 2007)



Kuala Lumpur, Malaysia (Oct. 23, 2007)

## General Participants

### a. Dissemination and use of Web site

The participant can freely inspect the Web site. Moreover, useful information for other participants can be freely sent through the Web site.

### b. Participate for international forum and workshop

The participant join for ARRN events such as international forum held by ARRN and the workshop by each RRN sponsoring.

### c. Original holding of workshop

Every participant can hold original workshop by receiving the backup of ARRN conference or RRN.

### d. The specialist's technological advice and investigation team dispatch

All participants cooperate positively when the specialist's technical advice is required or the advanced case investigation committee is sent to another region.

## 5) ARR N Charter

## Asian River Restoration Network Charter

**Name**

This international information exchange network shall be called "Asian River Restoration Network" (hereinafter referred to as ARR N).

**Objectives**

ARR N is a network for exchanging knowledge and technological information on the restoration of rivers and watersheds in Asia. One of the objectives is to provide various opportunities and venues for river restoration related organizations and individuals to share and exchange knowledge and experiences related to the restoration of rivers and watersheds through the network, aiming to enrich the participants' knowledge and scientific technology through mutual and multilateral cooperation.

**Categories of Activities**

In order to attain the objectives stated in the preceding article, activities in the following categories shall be carried out in relation to the restoration of rivers and watersheds:

- Activities for technological support
- Activities for research and development
- Activities for publication
- Activities for public relations

**Particulars of Activities**

ARR N shall carry out the following activities in relation to the restoration of rivers and watersheds to attain the objectives defined in the Objectives.

- Activities involving exchanging and sharing information through the newsletter to be distributed on the web-site through internet and by e-mail.
- To hold workshops and forums with a view to providing a venue to introduce or compile information on the latest global waterfront conditions and case studies of improved waterfront environments.
- To draw up or revise guidelines for the restoration of rivers and watersheds.
- To conduct joint studies to be undertaken by participating countries, support the provision of information with a view to studies.
- To dispatch lecturers from one participating country to another and intermediate communication with experts.
- To translate and publish books on the restoration of rivers and watershed.

ARR N will expand the scope of activities as required.

### **Eligibility for Participation**

1. ARRN shall accept the applicant from any administrative institution, private organization, researcher, and individual as long as the participant would like to consider the river restoration issues.
2. All participants shall register themselves with the Secretariat.

### **Governing Council**

1. The Governing Council shall make decisions on operations such as the organizational framework and action plan, based on this charter.
2. A Chairperson shall be appointed for the Governing Council, whose term of office shall be 2 years.
3. The chairperson is recommended at the Governing Council, and be decided.
4. In a Governing Council, the following items to be proposed by any ARRN participant and the Secretariat shall be deliberated:
  - Decisions on the structure of the Governing Council and the Secretariat.
  - Decisions on the execution, revision and cancellation of the Charter
  - Decisions of the annual action plan and policies for actions
  - Other matters tabled by participants

### **Secretariat**

1. The Secretariat shall hold the council meeting.
2. The Secretariat shall submit an action plan, other matters for decision to the Governing Council.
3. A Secretary General shall be appointed for the Secretariat, whose term of office shall be 2 years.

### **Funding for Activities**

Funding for the activities of the Secretariat shall, in principle, be provided by the participants who take charge of the Secretariat. However, cooperation may be solicited from other participants when necessary.

### **Execution, Cancellation and Revision**

These rules shall come into force on November 8, 2006 and may be revised or canceled as required through deliberations in the Governing Council.

#### **Memorandum:**

The Charter was proposed in accordance with the discussions between three organizations, China Institute of Water Resources and Hydropower Research (IWRH), Korean Institute of Construction Technology (KICT) and Foundation for Riverfront Improvement and Restoration of Japan (RFC).

6) Advantages of joining ARRN

1. Easy obtaining of domestic and foreign information.
2. Acquisition of holding information on domestic and foreign event such as seminar and workshops.
3. Easy acquisition of each country material such as standard book, technological indicator book, and video image, etc.
4. Acquisition of case study information  
Information in each country is able to acquire through the organizations in participant countries even if there is no knowledge enough for a local language.
5. Acquisition of domestic and foreign latest, technological information  
It can know a local press release of the government concerning the river and the waterside offered by the participant in each country and outline information on the latest technology etc. from the information source such as Web sites.
6. Offering cheaper advertisement measure  
By using network and Web site, international advertisement is possible in low cost.
7. A coordinated business with various foreign countries can be assisted.
8. Holding support such as international seminar workshops

## 2. 1<sup>st</sup> ARRN Governing Council Meeting (Nov. 8, 2006)

On the 8th November 2006, the 1st ARRN Governing Council Meeting was held in Tokyo. At the meeting, approval of ARRN charter, selection of the chairperson as well as a discussion on its logo and website operation were made, where valuable and substantial input on the future activities of ARRN was received from the participants.

Participants:

Dr. Nobuyuki TAMAI(Japan), Dr. Wen Gen LIAO(China), Dr. Hyo Seop WOO(Korea), Dr. Chang-Wan KIM(Korea), Mr. Jukka JORMOLA(Finland), Mr. Ir. Weng Keong CHO(Malaysia), Dr. Keigo NAKAMURA(Japan) and ARRN secretariat



1st ARRN Governing Council Meeting



## 1st ARRN Governing Council Meeting

## Agenda

Date: Nov. 8th 2006

Time: 15:00 - 17:00 (Japan standard time)

Place: RFC meeting room A, B & C (Chiyoda-ku Tokyo)

## Opening (15:00)

15:00	Opening Address	5 min
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## Proceedings (15:05 ~ 17:30)

15:05	Report on ARRN Organization Structure (by RFC)	20 min
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15:25	Approval relates for the management	20 min
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- Approval for ARRN agreement
- Election of the Chairman for Governing Council
- Election for Secretariat and the Secretary General

15:45	Discussion for ARRN annual action plan and policy	60 min
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- 3 years Term Schedule
- the logo mark
- ARRN Web site
- Investigate concept and framework of guideline

16:45	Pre-discussion for the "International Forum on Waterfront and Watershed Restoration"	40 min
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- Report for the forum time schedule
- Brief report for the each presentation (About 5 min per each )

17:25	Additional confirmation matter	5 min
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## Closing (17:30)

1st ARRAN Governing Council Meeting  
Minutes

1. Approved matters on administration and rules

- A framework for ARRAN charter was approved and the details are to be further discussed by email and telephone.
- One representative is to be selected from each country and region to form an RRN. At a governing council meeting, each RRN will possess an equal voting right.
- The operation of ARRAN secretariat will be determined at a governing council meeting and the chief of the secretariat will be selected among the RRN that runs the secretariat.

2. Selection of secretariat and secretary-general as well as the chairperson of governing council

- ARRAN secretariat will be set in Japan (JRRN) within the Foundation for Riverfront Improvement and Restoration (RFC) for the coming two years. The secretary-general will be Mr. Sago who is the director of Technical Coordination & Cooperation Division, RFC.
- For the ARRAN chairperson, the secretariat recommended Professor Nobuyuki Tamai, which was approved.

3. Future Activities Plan

- The plan for ARRAN activities is to be drawn with the target set at the 5th World Water Forum (Turkey).
- A logo for ARRAN and the basic procedures for its website operation were approved and it was also agreed that English will be the common language when ARRAN transmits information.
- In establishing a guideline in the future, not only nature restoration but also landscape and urban renaissance will be taken into consideration.

### 3. ARRN Establishment Ceremony (Nov. 9, 2006)

On the 9th November 2006, ARRN Establishment Ceremony was held in Tokyo simultaneously with "The 3rd International Forum on Waterfront and Watershed Restoration." These events gathered the officials concerned with river restoration project from 5 countries including Japan, China and Korea that are the ARRN member states, Malaysia as a neighbouring country, and Finland as a representative state from ECRR in Europe. At the Ceremony, it was confirmed and signed that the Japan, China and Korea would be the 3 initial member states of ARRN and conduct activities with a view to actively promoting information exchange in Asia. Following this, various international networking activities related to water and rivers were introduced.



Presentation on ARRN outline



Signing Ceremony



Signing Ceremony



Presentation on ECRR outline



Presentation on IfNET

## ■ARRN Establishment Ceremony (Program)

Date/Time : November 9th 2006, Thursday 10:30 – 12:00  
 Venue : The Grand Arc Hanzomon FUJI HIGASHI (4F)  
 Organizer : Asian River Restoration Network (ARRN)  
 Co-Organizer : China Institute of Water Resources and Hydropower Research (IWHR)  
 Korea Institute of Construction Technology (KICT)  
 Foundation for Riverfront Improvement and Restoration (RFC)

**10:50~11:05** Explanation of the purposes and development of the ARRN  
**Foundation for Riverfront Improvement and Restoration(ARRN Secretariat)**

**11:05~11:15** Signing ceremony  
**Dr. Wen Gen Liao** China Institute of Water Resources and Hydropower Research  
 (China River Restoration Network)  
**Dr. Hyo Seop Woo** Korea Institute of Construction Technology  
 (Korea River Restoration Network)  
**Dr. Koutarou Takemura** Foundation for Riverfront Improvement and Restoration  
 (Japan River Restoration Network)

**11:15~12:00** Introduction of international networks related to water  
 Current activities of Europe's information exchange networks and river policies  
**Mr. Jukka Jormola**, Finnish Environment Institute  
 River Restoration in INWEPF  
 (International Network for Water and Ecosystem in Paddy Fields)  
**Dr. Atsushi Suzuki**, Rural Development Bureau, The Ministry of Agriculture, Forestry and Fisheries of Japan  
 Outline of the Global Flood Alert System  
**Dr. Kazuo Kera**, 2nd Research Department, Infrastructure Development Institute  
 Outline of the activities of NARBO (Network of Asian River Basin Organizations)  
**Mr. Hiroyuki Sindo**, Network of Asian River Basin Organizations  
 Outline of the Asia-Pacific Water Forum  
**Ms. Taeko Yokota**, Japan Water Forum

## 4. Major Activities

### 1) Summary of Activities

Year	Date	Activity
2006	Nov.8	1st ARRNGoverning Council Meeting (Tokyo, Japan)
	Nov.9	The 3rd International Forum on Waterfront and Watershed Restoration (Tokyo, Japan)
	Dec.18	JRRN News mail (email) start
	Dec.	JRRN Newsletter 1st issue
2007	Jan.28	JRRN Newsletter 2nd issue
	Feb.6	1st Advisory committee meeting for ARRNG/JRRN activities (Tokyo, Japan)
	Apr.24	Technical tour assistance for Korea extreme-flood research mission
	May 8	Meeting between ARRNG secretariat and K-Water (Tokyo, Japan)
	May 17	Presentation on ARRNG activities (Pyeongchang , Korea) Korea Water Resources Association 2007 Annual Conference
	Jun.1	JRRN Newsletter 3rd issue
	Jun.26	Presentation on ARRNG activities (Feng-Chia Univ. Taiwan) 2007 Mini-forum on International experience sharing on the applications of river restoration techniques
	Jun.27	Presentation on ARRNG activities (Taipei, Taiwan) The 4th Civil Engineering Conference in the Asian Region
	Jul.24	2nd Advisory committee meeting for ARRNG/JRRN activities (Tokyo)
	Aug.1	JRRN website renewal
	Aug.23	Coordination meeting between ARRNG secretariat and KICT for 2nd ARRNG governing council meeting (Tokyo, Japan)
	Aug. 27	Coordination meeting between ARRNG secretariat and IWHR for 2nd ARRNG governing council meeting (Beijing, China)
	Aug.27-30	PR activity of ARRNG in China (Beijing Institute of Water, Wuhan Municipal Water Authority, Shanghai Suzhou Creek Rehabilitation Project Head Office)
	Sep.3	Distribution start of PR pamphlet of JRRN
	Sep.4	JRRN Newsletter 4th issue
	Sep.20	Meeting between ARRNG secretariat and K-Water (Tokyo, Japan)
	Sep.25	PR activity of ARRNG in Malaysia, Department of Irrigation and Drainage (Kuala Lumpur, Malaysia)
	Sep.26	APWS Theme-C Preparatory Meeting (Bangkok, Thailand)
	Oct.7	JRRN Newsletter 5th issue
	Oct.11	JRRN Regional workshop on urban river restoration, Love River, Kaohsiung Taiwan (Tokyo, Japan)
	Oct.23	Presentation on ARRNG activities (Kuala Lumpur, Malaysia) The 3rd Southeast Asia Water Forum, Regional workshop
	Nov.1	JRRN Newsletter 6th issue
	Nov.6	Technical tour assistance for Joongbu University students
	Nov.8	JRRN News mail 50th issue release
	Nov.14	Presentation on ARRNG activities (New Delhi, India) WFEO-General Assembly and World Congress
	Nov.15	PR activity of ARRNG in Thailand, Department of Water Resources, Ministry of Natural Resources and Environment (Bangkok, Thailand)
	Nov.30	The 4th International Forum on Waterfront and Watershed Restoration (Tokyo, Japan)
	Dec.1	2nd ARRNGoverning Council Meeting (Tokyo, Japan)




## 2) International Forum

### The 3rd International Forum on Waterfront and Watershed Restoration (November 9, 2006, Tokyo JAPAN)

On the 9th November 2006, "The 3rd International Forum on Waterfront and Watershed Restoration" was held in Tokyo on the same occasion as ARRN Establishment Ceremony.

In the general discussion of the forum, the cases of river restoration in each participatory country were introduced and the topics such as the particular needs of each country concerning river restoration, the ideal way of information exchange and interaction, the content of information to be shared as well as the sharing method, and common guideline were discussed.



ARRN  
Asian River  
Restoration Network

水辺・流域再生にかかわる国際フォーラム  
～ Asian River Restoration Network 設立式典 ～


**International Forum on Waterfront and Watershed Restoration (November 2006)**



蘇州河:CHINA



清溪川:KOREA



木曾川:JAPAN

日 時	: 2006 年 11 月 9 日 (木) 10:30 - 16:00
会 場	: グランドアーク半蔵門 富士東の間 (4 F)
主 催	: アジア河川・流域再生ネットワーク (ARRN)
共 催	: 中国水利水電科学研究院 (IWHR) 韓国建設技術研究院 (KICT) (財)リバーフロント整備センター (RFC)
後 援	: 国土交通省 (MLIT)、日本水フォーラム (JWF)、アジア河川流域機関ネットワーク (NARBO)、 (社)国際建設技術協会 (IDO)、(社)建設コンサルタンツ協会 (JCCA)、応用生態工学会 (ECES)
Date/Time	: November 9th 2006, Thursday 10:30 - 16:00
Venue	: The Grand Arc Hanzomon FUJI HIGASHI (4F)
Organizer	: Asian River Restoration Network (ARRN)
Co-Organizers	: China Institute of Water Resources and Hydropower Research (IWHR) Korea Institute of Construction Technology (KICT) Foundation for Riverfront Improvement and Restoration (RFC)
Supporters	: Ministry of Land, Infrastructure and Transport (MLIT) Japan Water Forum (JWF) Network of Asian River Basin Organizations (NARBO) Infrastructure Development Institute (IDI) Japan Civil Engineering Consultants Association (JCCA) Ecology and Civil Engineering Society (ECES)

Handout of 3rd International Forum

## International Forum on Waterfront and Watershed Restoration (November 2006)

Currently, many activities and research on nature restoration are being implemented around the world. Exchanging information and sharing knowledge, not only on a national scale but also among countries, is especially beneficial for carrying out such activities more efficiently and effectively.

"International Forum on Waterfront and Watershed Restoration" will be held in accordance with the recommendations made by the 'Nature Restoration Subcommittee' at the 4th World Water Forum, with the intention of officially establishing the 'Asian River Restoration Network (ARRN)', the Asian river and watershed restoration information network led by China, Korea and Japan.

In addition to celebrating the official launch of ARRN, the framework of ARRN, including its mission, value, activities, and organization structure will be introduced during the forum.

### ■Opening

**10:30~10:40** Opening address

**Dr. Koutarou Takemura**, Foundation for Riverfront Improvement and Restoration

**10:40~10:50** Guest address

River Bureau, Ministry of Land, Infrastructure and Transportation, Japan

### ■ARRN Establishment Ceremony

**10:50~11:05** Explanation of the purposes and development of the ARRN

**Foundation for Riverfront Improvement and Restoration(ARRN Secretariat)**

**11:05~11:15** signing ceremony

**Dr. Wen Gen Liao** China Institute of Water Resources and Hydropower Research  
(China River Restoration Network)

**Dr. Hyo Seop Woo** Korea Institute of Construction Technology  
(Korea River Restoration Network)

**Dr. Koutarou Takemura** Foundation for Riverfront Improvement and Restoration  
(Japan River Restoration Network)

**11:15~12:00** Introduction of international networks related to water

Current activities of Europe's information exchange networks and river policies

**Mr. Jukka Jormola**, Finnish Environment Institute

River Restoration in INWEPF

(International Network for Water and Ecosystem in Paddy Fields)

**Dr. Atsushi Suzuki**, Rural Development Bureau, The Ministry of Agriculture,  
Forestry and Fisheries of Japan

Outline of the Global Flood Alert System

**Dr. Kazuo Kera**, 2nd Research Department, Infrastructure Development Institute

Outline of the activities of NARBO (Network of Asian River Basin Organizations)

**Mr. Hiroyuki Sindo**, Network of Asian River Basin Organizations

Outline of the Asia-Pacific Water Forum

**Ms. Taeko Yokota**, Japan Water Forum

**12:00~13:00** Lunch Break

### ■Presentations and General Discussion

**13:00~16:00** General Discussion "River Restoration in the Asia Monsoon Region"

**Coordinator: Prof. Nobuyuki Tamai**,

Professor, Kanazawa University; Professor Emeritus, The University of Tokyo

**Panelists : Japan, China, Korea, Malaysia, European Center for River Restoration (ECRR)**

River Restoration in China

**Dr. Wen Gen Liao**, Department of Water Environment, China Institute of Water Resources  
and Hydropower Research

River Restoration in Korea

**Dr. Chang Wan Kim**, Water Resources Research Department, Korea Institute of  
Construction Technology

River Restoration in Japan

**Mr. Masanao Harada**, River Bureau, Ministry of Land, Infrastructure and Transportation  
River Restoration in Japan

**Dr. Keigo Nakamura**, Water Environmental Group, Public Works Research Institute

River Restoration in Malaysia

**Ir. Weng Keong Cho**, River Division, Department of Irrigation and Drainage

**16:00**

Closing

## 3rd International Forum Program



Opening Address(Dr. Takemura)



General Discussion



General Discussion



Reception



## 3) Regional Workshop

**Regional Workshop on Urban River Restoration, Love River in Kaohsiung, Taiwan  
(October 11, 2007, Tokyo JAPAN)**

On the 11th October 2007, " Regional Workshop on Urban River Restoration, Love River in Kaohsiung, Taiwan " was held in Tokyo under the joint sponsorship of Nihon University and JRRN(Japan River Restoration Network).

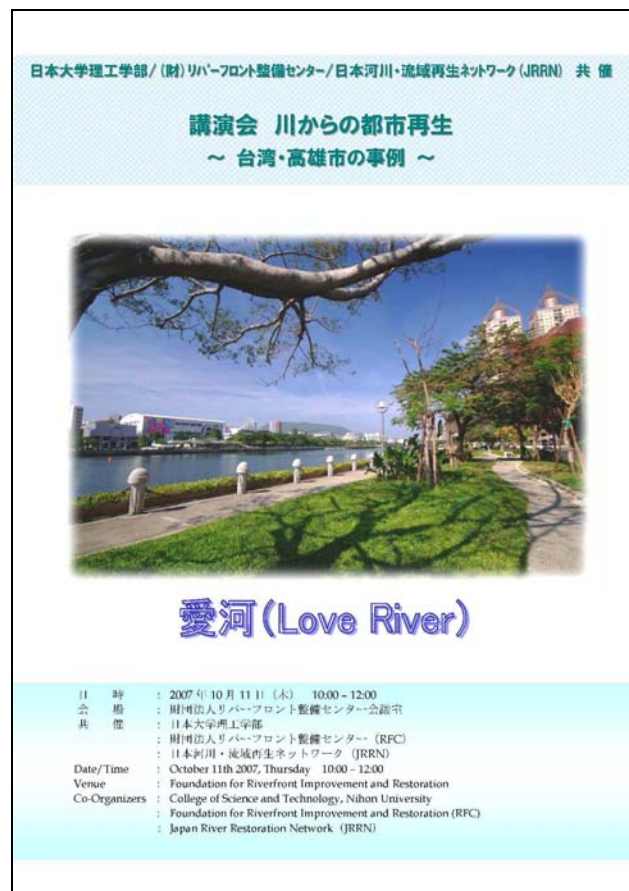
Presentations:

## 1) The Revitalization of Love River Kaohsiung ,Taiwan

Mr. Chi-tze Chen, Former Director General of Public Works Bureau, Kaohsiung City Government

## 2) Urban Cultural Renovation Led by River - the Kaohsiung experience

Mr. Hong-Mo Wu, Director General of Public Works Bureau, Kaohsiung City Government



Handout of Regional Workshop

In the regional workshop, Mr. Chi-Tze Chen, who had been working on the improvement of water environment in Kaohsiung City for more than 30 years, gave a speech on the revitalization of Love River and closely explained its background as well as the concrete content of the project. Then, Mr. Hong-Mo Wu, director general of Public Works Bureau in Kaohsiung City, presented topics on the history of Kaohsiung city's development centred on the Love River and its close relation with the citizens.

With this workshop as a start, ARRN and JRRN would like to keep close contact with the concerned parties in Kaohsiung City and continuously exchange rich and valuable information with them in order to accumulate lively information on river restoration.



Opening Address(Dr. Takemura)



Mr. Chi-tze Chen



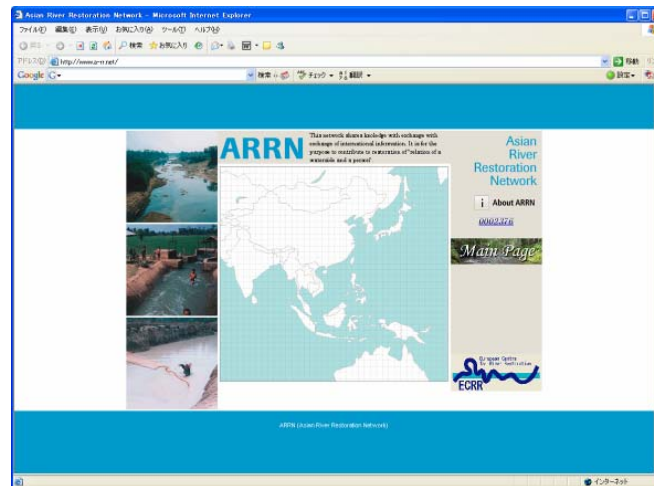
Mr. Chi-Tze Chen and Mr. Hong-Mo Wu



## 4) Website

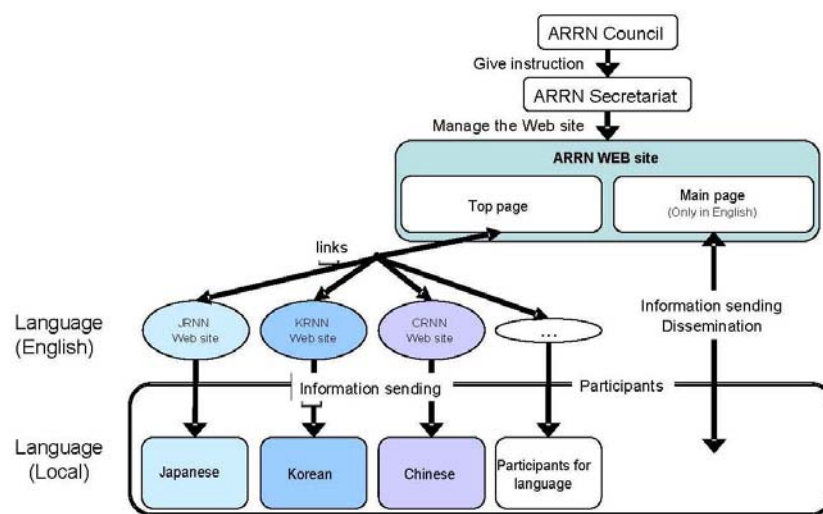
**ARRN Website**

Website is the one of the most important tool for sharing and exchanging information on river restoration among ARRN members.



ARRN Website ( <http://www.a-rr.net/> )

The trial version of the ARRN Website is examining operated in presence, and the composition is as showing in the following charts. It is current first priority to make complete the website of each RNN in both local language and English.



Composition of ARRN Website

## JRRN Website

JRRN aims to establish a mechanism that enables people concerned with river and waterfront restoration to provide and exchange information of their common interests. As a way of achieving this, we work on the enhancement of our website content. The website is designed to promote information circulation and links between people concerning the restoration of river and water environment and it is targeted at civic groups, administrators, private practitioners, researchers and so on. It covers an extensive range of information such as domestic and international river restoration cases, local activities, technical issues, news, books, journals and recreation.



日本河川・流域再生ネットワーク

日本語 | English

[最新情報](#) | [サイトマップ](#) | [お問い合わせ](#)



JAPAN RIVER RESTORATION NETWORK

トップページ

トップページ

JRRN紹介

最新の話題・ニュース

イベント情報

情報交換・交流

日本と世界の水辺

水辺の活動

水辺を楽しむ

水辺を見る・知る・学ぶ

書籍・教材・論文

人・組織のつながり



新着情報

2007.8.17(最近の話題・ニュース)

■「河川・流域に関する最新記事(2007年8月14日～8月16日)」を掲載しました。

2007.8.17(水辺を見る・知る・学ぶ)

■「水辺の博物館情報(北陸編)」を8件追加しました。

2007.8.14(最近の話題・ニュース)

■「河川・流域に関する最新記事(2007年8月10日～8月13日)」を掲載しました。

2007.8.14(水辺を見る・知る・学ぶ)

■「水辺の博物館情報(北海道編)」を15件追加しました。

2007.8.13(最近の話題・ニュース)

■「河川・流域に関する最新記事(2007年8月7日～8月9日)」を掲載しました。

2007.8.13(イベント情報)

■「第10回日韓河川応用生態セミナー(2007.8.24-26)」を追加しました。

2007.8.7(最近の話題・ニュース)

■「河川・流域に関する最新記事(2007年7月31日～8月6日)」を掲載しました。

2007.8.7(最近の話題・ニュース)

■「新着図書紹介(川の技術のフロント(2007.8))」を掲載しました。



ようこそ JRRNへ！

JRRN(日本河川・流域再生ネットワーク)は、国際的に河川再生に関する交流を行うネットワーク(Asian River Restoration Network: ARRN)の日本窓口です。河川・流域再生に関する知見、技術、経験等を組織・個人間、交流し共有できる機会と場の提供を目的とした活動をしています。



```

graph TD
    ARRN[Asian River Restoration Network (ARRN)]
    ARRN --- Japan[日本]
    ARRN --- Korea[大韓民国]
    ARRN --- China[中華人民共和國]
    ARRN --- Etc[その他の国や地域]
    Japan --- JapanRRN[Japan RRN]
    Korea --- KoreaRRN[Korea RRN]
    China --- ChinaRRN[China RRN]
    Etc --- EtcRRN[etc.]
    JapanRRN --- JapanIndiv[団体登録者  
個人登録者]
    KoreaRRN --- KoreaIndiv[団体登録者  
個人登録者]
    ChinaRRN --- ChinaIndiv[団体登録者  
個人登録者]
    EtcRRN --- EtcIndiv[団体登録者  
個人登録者]
    
```



川や水辺の写真、活動情報を募集！

情報交換・交流サイト

川や水辺の再生事例、水辺における水地域の取り組み、美しい水辺の風景写真や美しい川の整備事例、地元のニュースや新聞記事等、河川・流域再生に関する各種からの貴重な情報をご提供下さい。

[続きはコチラ](#)



JRRN 会員募集中心！

JRRNでは現在会員を募集しています。会員登録に関する詳しい情報はこちらからご覧下さい。

[会員登録ページ](#)

日本と世界の水辺



野川(東京都)

[水辺の紹介ページへ](#)



出版図書紹介

「多自然川づくりポイントブック」  
リバーフロント整備センター  
2007年4月

[書籍・教材・論文](#)



アジア河川・流域再生  
情報ネットワーク

アジア諸国における河川再生に関する情報交換を目的とした組織として、2006年11月ARRNが設立されました。日本におけるARRNの活動は、日本河川・流域再生ネットワーク(JRRN)が担います。

[Go to ARRN website](#)

お問い合わせ先

財団法人リバーフロント整備センター  
技術普及部  
東京都千代田区一番町8番地  
一番町FSビル3階  
電話 03-3265-7121  
Fax 03-3265-7456  
e-mail info@rrn.net

[プライバシー・個人情報保護方針](#)

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JRRN Website ( <http://www.a-rr.net/jp/> )

## 5) Newsletter

## JRRN Newsletter

JRRN newsletter written in Japanese is delivered at the pace once a month to the JRRN members. Newsletter is also another important and useful tool to share JRRN activities among members. All back issues are available through JRRN website. Please refer to the following address.

About all back issues: <http://www.a-r-r.net/jp/info/letter/newsletter/>

JRRN newsletter (1<sup>st</sup> Issue)JRRN newsletter (6<sup>th</sup> Issue)

## ARRN Newsletter

ARRN English newsletters will be delivered after the second year. Destination address will be made by participants who registered the mail address from the Web site in ARRN or RRN, and newsletters will be delivered to the address.

The participant including each RRN positively does the giving information of the newsletter, which the management secretariat makes it.

The language used of the newsletter is assumed to be English as well as the Web site. Please wait to publication of the first issue for a while.

## 6) News mail

**JRRN News mail**

JRRN news mail written in Japanese is delivered at the pace once or twice a week to the JRRN members. Main contents are news topics regarding river environment issue in Japan, information by JRRN members, and message from JRRN secretariat. News mail is a useful tool to acquire latest movement on river environmental issue and share JRRN activities among members. All back issues are also available through JRRN website. Please refer to the following address.

About all back issues: <http://www.a-rr.net/jp/info/letter/newsmail/>

Subject: [Jrrn-mbr] 【JRRN ニュースメール】 第 50 号

河川・流域に関する最新記事（2007 年 11 月 6 日～8 日）  
 発信：JRRN 事務局

当ニュースメールは、複数のメールアドレスを配信先に登録可能です。  
 ご希望がございましたら『info@a-rr.net』までご連絡ください。  
 また、皆様のこんなニュース報道を集めて欲しい、こんな情報を発信して欲しい等の要望も随時受け付けております。  
 ご要望がございましたら、『info@a-rr.net』までご連絡下さい。

■事務局からのお知らせ■

●第 4 回水辺・流域再生に関わる国際フォーラム開催のお知らせ（2007. 11. 30）  
 Asian River Restoration Network（ARRN）主催「第 4 回水辺・流域再生に関わる国際フォーラム 街づくりと河川の保全・再生」が 2007 年 11 月 30 日に全国都市会館（東京）にて開催されます。プログラムの詳細や参加申込方法は以下をご覧ください。皆様のご参加をお待ちしております。  
 詳しくはこちらから→<http://www.a-rr.net/jp/info/letter/information/309.html>

●「JRRN Newsletter No.6（2007 年 11 月）」が発行されました。  
 JRRN Newsletter の第六号では、先月開催しました JRRN 共催イベント「川からの都市再生 台湾・高雄市 愛河」の結果報告や、マレーシアの河川事情に関する寄稿記事などが紹介されています。  
 詳しくはこちらから→<http://www.a-rr.net/jp/info/letter/newsletter/323.html>

●「水辺のミュージアム」が発行  
 JRRN の事務局を務める財団法人リバーフロント整備センターより、「水辺」にかかわる

JRRN News mail (50<sup>th</sup> issue 8 November 2007)

**ARRN News mail**

ARRN news mail has not been delivered yet, however, it will be also delivered to the ARRn members after the second year. ARRn secretariat is now examining contents and dispatch frequency.

## 7) Preparing Guideline for River Restoration

The necessity for attempting the improvement of the natural restoration technology by a common guideline to Asian region was proposed in the "River Restoration in Asian Monsoon Region" of the 4th World Water Forum. Therefore, it is thought that the guideline's making it with ARRAN, network organization aims to improve river and basin environment in an Asian region, can make and it spread efficiently a practicable technological guideline. For the reason, it is preferable to make the guideline as part of the ARRAN major activity.

It is preferable that "River Restoration Guideline" considers the entire basin for the rivers and the restoration of basins in an Asian region. Therefore, ARRAN proposes to make the guideline based on following concept (content and users).

### ■Contents:

It is preferable to enhance the content include case introductions based on the guideline made by "Natural restoration session" of the 3rd World Water Forum (March, 2002). The guideline is made in English, and translated if necessary afterwards.

### ■Users:

Person involved in river and basin restoration in Asian nations

### ■System of making:

It is thought that it is efficient that holding the associated session on three countries and checking the content at the technical conference etc. at the end after Japan, China, and Korea sequentially edit it respectively.

During the first year, we collected about 70 existing guidelines concerning river restoration as a preparatory step for establishing our own guideline. ARRAN secretariat is currently preparing a system that allows access to these existing guidelines on the website and plan to hold discussions on the actual guideline establishment from the second year onward.



## 8) Public Relations

With a view to disseminating ARRAN activities widely across Asia and to increase its members, we conduct PR activities through river-related international conferences, academic meetings and interchange of ideas with concerned bodies.

### **Meeting between ARRAN secretariat and K-Water (May 8, 2007/ Sep. 20, 2007, Tokyo JAPAN)**

On the 8th May 2007, engineers from the Korean Water Resources Corporation visited us in Japan to hold a meeting on river restoration at the Foundation for Riverfront Improvement and Restoration where ARRAN secretariat is currently located. We presented Japan's cases of river restoration and explained the outline of ARRAN activities led mainly by Japan, China and Korea. It was a meaningful opportunity for both of us to exchange opinions and information.

### **Korea Water Resources Association 2007 Annual Conference (May 17, 2007, Pyeongchang KOREA)**



Annual Conference

On the 17th May 2007, the "Korea Water Resources Association 2007 Annual Conference" was held in Pyeongchang, Korea. At this conference, which attracted many researchers specialised in the field of water resources not only from Korea but also Japan, China and New Zealand, we introduced ARRAN as an international network concerning river restoration.



Educational Program for Students

We also had an inspection of river restoration sites in and near Seoul and observed civil activities in the areas of the Cheongyecheon running through the centre of Seoul as well as the Yangajecheon, where the first river restoration project in Korea was implemented.

### 2007 Mini-forum on International Experience Sharing on the Applications of River Restoration Techniques (June 26, 2007, Feng-Chia Univ. Taichung TAIWAN)

On the 26th June 2007, the "Mini-forum on International Experience Sharing on the Applications of River Restoration Techniques" (hosted by the Disaster Prevention Research Centre, Feng Chia University) was held at Feng Chia University in Taichung, Taiwan, where engineers from Taiwan, Korea and Japan reported the recent status of river restoration in their countries. On this occasion, ARRN secretariat presented a speech titled "Establishing an International Network on River Restoration" and conducted PR activities.



Speakers



Presentation on ARRN Activities

### The 4th Civil Engineering Conference in the Asian Region (June 27, 2007, Taipei TAIWAN)



Introduction of ARRN Activities

In late July 2007, ARRN presented a speech on its efforts on the international network concerning river restoration in a technical session called "Ecology, Environment and Engineering" at the "4th Civil Engineering Conference in the Asian Region" held in Taipei, Taiwan.

**Beijing Institute of Water, Wuhan Municipal Water Authority, and Shanghai Suzhou Creek Rehabilitation Project Head Office  
(August 27 -30, 2007, Beijing, Wuhan, and Shanghai, CHINA)**

With an aim to learn the recent trend in river restoration projects in China as well as to conduct ARRNS PR activities, we visited "Beijing Institute of Water" responsible for river restoration projects in Beijing, "Wuhan Municipal Water Authority" in Wuhan, which also developed along the Yangtze River, and "Shanghai Suzhou Creek Rehabilitation Project Head Office" responsible for river restoration projects for the Suzhou River in Shanghai. At each of these organizations, we successfully gained their understanding for ARRNS activities.



Wuhan Municipal Water Authority



Beijing Institute of Water



Shanghai Suzhou Creek Rehabilitation Project Head Office

**PR activity of ARRNS in Malaysia, Department of Irrigation and Drainage  
(September 25, 2007, Kuala Lumpur MALAYSIA)**

On the 25th September 2007, we held a meeting with Dr. Keizrul Abdullah, the director of the Department of Irrigation and Drainage in Malaysia. We explained ARRNS activities and its future plan to the director, then discussed with him about the potential roles of Malaysia when participating in ARRNS.

### **APWS Theme-C Preparatory Meeting (Sep. 26, 2007, Bangkok THAILAND)**

On the 26th September 2007, Theme-C Preparation Meeting for the Asia-Pacific Water Summit (to be held in December 2007 in Oita, Japan) was held in Bangkok, Thailand. The ARRN secretariat members participated in this meeting as experts and discussed and deliberated on river restoration, urban renaissance and environmental flow.

### **The 3rd Southeast Asia Water Forum, Regional Workshop (October 23, 2007, Kuala Lumpur MALAYSIA)**



Introduction of ARRN Activities

From the 22nd to the 27th October 2007, the 3rd Southeast Asia Water Forum was held in Kuala Lumpur, Malaysia. In a regional workshop on the monitoring of river environment at this forum, we introduced ARRN activities. Throughout the forum, we reaffirmed the necessity of information sharing in Asia (on best practice, case of failure, technique, science, human resource etc.), while the participants expressed their expectations for ARRN.

### **WFEO-General Assembly and World Congress (November 14, 2007, New Delhi INDIA)**

From the 11th to the 16th November 2007, the World Federation of Engineering Organisations (WFEO) General Assembly and World Congress on Urban Infrastructure in Developing Countries was held in New Delhi, India. In a Technical Session on Quality of Urban Life at this congress, we introduced ARRN activities.



**PR activity of ARRN in Thailand, Department of Water Resources, Ministry of Natural Resources and Environment  
(November 15, 2007, Bangkok THAILAND)**

On the 15th November 2007, ARRN secretariat had a meeting on ARRN activities and its international forum with Mr. Surapol Pattanee, the director of the Bureau of Water Resources Policy and Planning, Department of Water Resources, Ministry of Natural Resources and Environment in Thailand. We introduced ARRN efforts to the director and discussed with him about the update status of river environment restoration in Thailand.

## PR pamphlet of JRRN

JRRN distributes pamphlets about its activities at river-related events in Japan as a part of its domestic PR activities.

[illegible]

## 9) Advisory Committee / Preparatory Meeting

With an aim to facilitate the activities of ARRN and RRNs, we organized a meeting of advisory committee consisting of some experts in Japan. In addition, we held a preparatory meeting prior to the 2nd ARRN Governing Council Meeting and the forthcoming ARRN International Forum with KICT and IWHR, which are the contact points of ARRN in Korea and China, respectively.

### **1st Advisory Committee Meeting for ARRN/JRRN activities (February 6, 2007, Tokyo JAPAN)**

With a view to learn experts' views on the future operation policy of ARRN and JRRN, we held the 1st advisory committee meeting for ARRN/JRRN Activities titled "Information Networking on Waterfront Environment" and gained valuable opinions from the representatives of various bodies including administrative agencies, research institutions, universities, civic groups and private companies.



1st Advisory Committee Meeting

#### Participants:

Dr. Keigo Nakamura (River Restoration Team at the Public Works Research Institute), Mr. Tetsumi NAKAMURA (Japan Civil Engineering Consultants Association), Mitsuyuki IKEDA (Asahikawa Basin Network) and ARRN secretariat



**2<sup>nd</sup> Advisory Committee Meeting for ARRN/JRRN Activities  
(July 24, 2007, Tokyo JAPAN)**



2nd Advisory Committee Meeting

In this 2nd advisory committee meeting, we reviewed the international activities of the Foundation for Riverfront Improvement as ARRN secretariat up to date and also gained diverse opinions on the expected future efforts concerning international networking on river environment from the representatives of administrative agencies, research institutions, universities, civic groups and private companies.

**Participants:**

Dr. Nobuyuki TAMAI (Kanazawa Gakuin University), Dr. Katsuhide YOSHIKAWA (Nihon University), Dr. Naoki SHIRAKAWA (Tsukuba University), Dr. Akiko SEINO (Tokyo University), Dr. Keigo Nakamura (River Restoration Team at the Public Works Research Institute), Mr. Tetsumi NAKAMURA (Japan Civil Engineering Consultants Association), Mitsuyuki IKEDA (Asahikawa Basin Network), Dr. Koutaro TAKEMURA (RFC) and ARRN secretariat

**Coordination Meeting between ARRN Secretariat and KICT for 2nd ARRN governing council meeting (August 23, 2007, Tokyo JAPAN)**

On the 23rd August 2007, we held a coordination meeting on the ARRN operation between the RFC (Foundation for Riverfront Improvement), which is the current ARRN secretariat, and the KICT (Korean Institute of Construction Technology), the contact point of ARRN in Korea. We discussed about the forthcoming ARRN International Forum as well as the ARRN Governing Council Meeting among Japan, China and Korea, while exchanging Information on organizations and groups concerned with the enlargement of river restoration network in Korea.

**Coordination Meeting between ARRN Secretariat and IWHR for 2nd ARRN governing council meeting (August 27, 2007, Beijing CHINA)**

On the 27th August 2007, we held a coordination meeting on the ARRN operation between the RFC (Foundation for Riverfront Improvement), which is the current ARRN secretariat, and the "China Institute of Water Resources and Hydropower Research", the ARRN contact point in China. A large number of representatives from the China Institute of Water Resources and Hydropower Research concerned with water environment research participated in the meeting, and we exchanged opinions on the expected networking in the future.



Meeting between ARRN and IWHR



Meeting between ARRN and IWHR

## 10) Others

As a part of ARRAN activities, we support river-related technical tour for the visitors from overseas. In the future, we plan to actively develop river-related physical support in addition to the information provision.

**Technical Tour Assistance for Korea Extreme-flood Research Mission  
(April 24, 2007, Tokyo JAPAN)**



Sumida River (Tokyo)

On the 24th April 2007, the Korea Extreme-flood Research Mission (consisting of university and research institute staff) visited Japan. ARRAN secretariat coordinated and assisted their technical tour with the cooperation of the River Department, Bureau of Construction, Tokyo Metropolitan Government. The mission visited the river restoration sites under the jurisdiction of the Bureau including the Sumida River and the Old Naka River, and we held a discussion on river restoration.

**Technical tour assistance for Joongbu University students  
(November 6, 2007, Tokyo JAPAN)**



Underground Discharge Channel

On the 6th November 2007, a student group in the Department of Civil Engineering at Joongbu University in Korea visited Japan and we assisted a technical tour by guiding them through the river-related facilities in and around Tokyo. In addition, we introduced the outline of ARRAN activities to them.

## 5. ARRAN Members

### 1) ARRAN Members

Currently, the following organizations are official member of ARRAN, and they have a role of secretariat in each River Restoration Network (RRN):

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



- China Institute of Water Resources and Hydropower Research (IWHR)  
<http://www.iwhr.com/english.asp>

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



- Korean Institute of Construction Technology (KICT)  
<http://www.kict.re.kr/eng/index.asp>

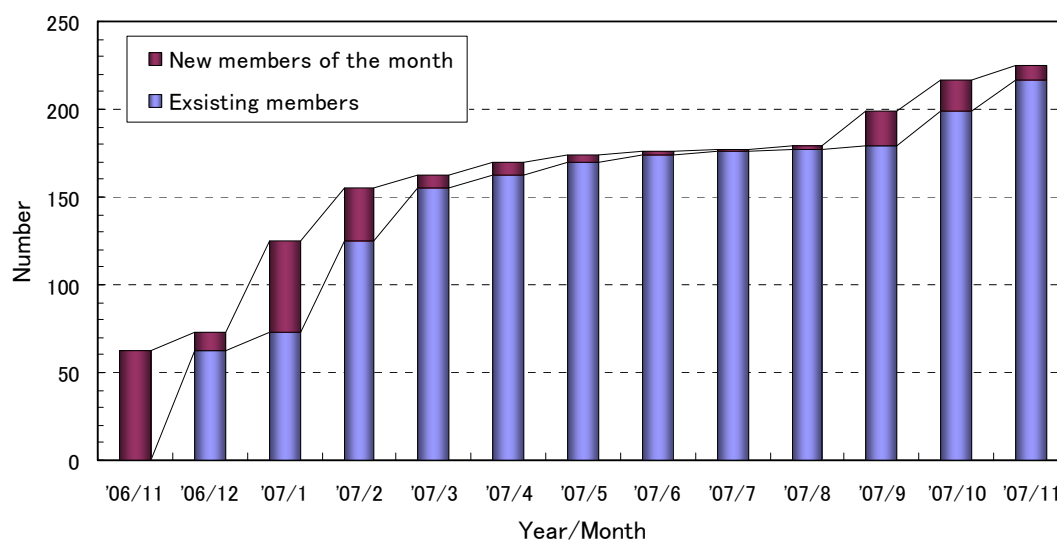
#### **JRRN (Japan River Restoration Network):** <http://www.a-rr.net/jp/>



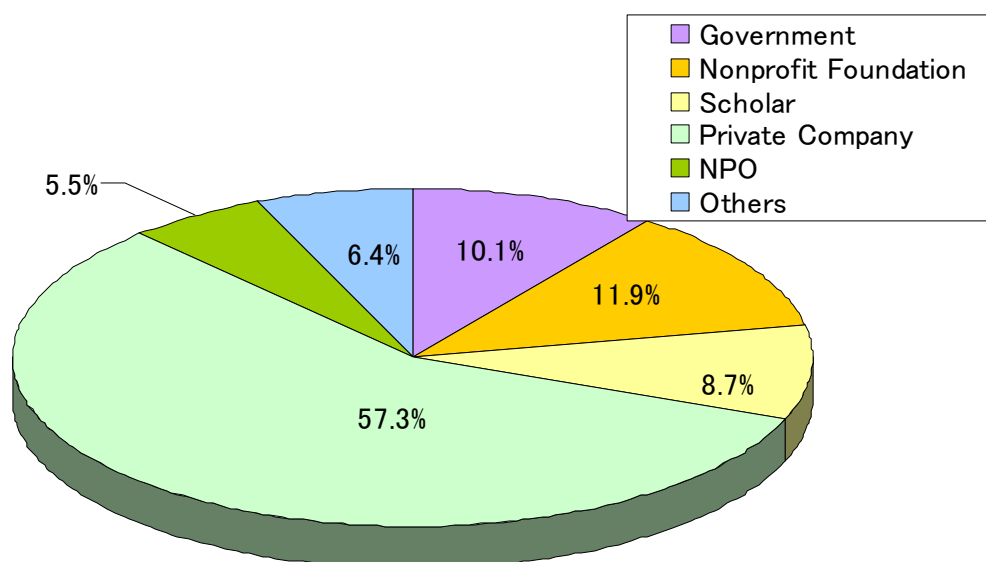
**Foundation  
for Riverfront Improvement and Restoration**

- Foundation for Riverfront Improvement and Restoration of Japan (RFC)  
<http://www.rfc.or.jp/english/top.htm>

## 2) JRRN Members

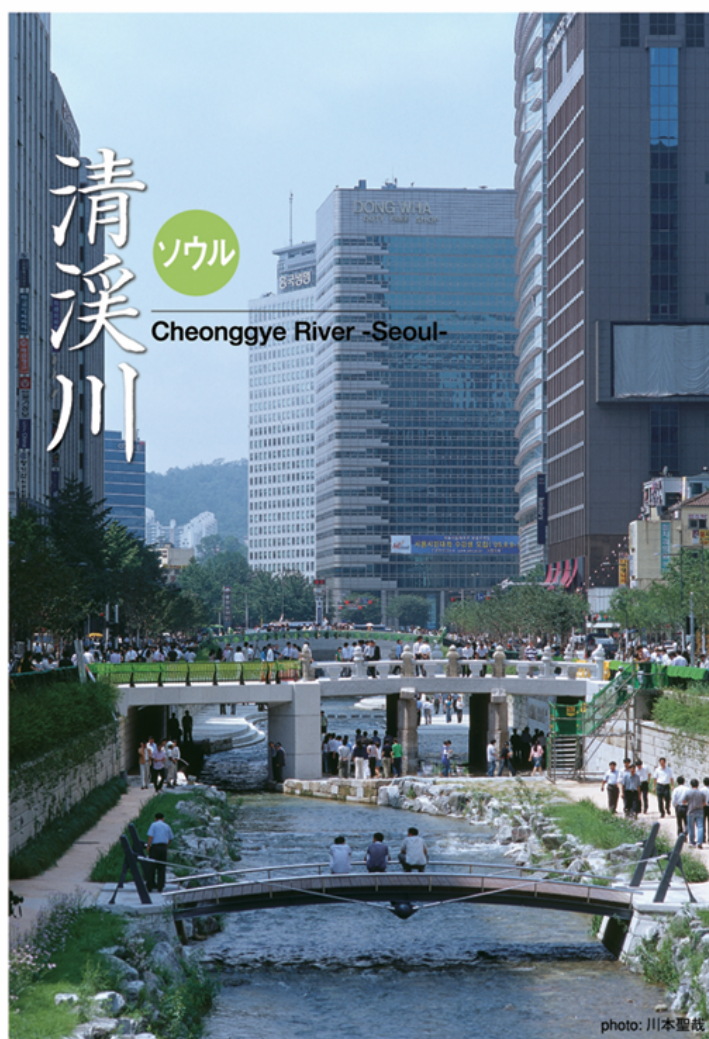


Enrollment change of the member (as of November 15, 2007)



Constitution of the JRRN member (as of November 15, 2007)





覆蓋道路のオープン化と高架道路の撤去で有名な清溪川は、ソウル特別市の歴史や文化を象徴する都市のシンボルとして再生されました。

The Cheonggye River has been restored as the symbol of the Seoul Metropolitan City's history and culture through the removing of paved roads and overpass above the river.

もう始まっている

アジアのムーブメント





人々の生活に密接な黄浦江は、親水性の向上・修景等によって、都市生活に潤いのある河川に再生されました。

The Huangpu River, closely linked to the people's lives, has been restored to enrich their urban life through the water-friendly improvement and landscaping.



多自然工法が施された川では、水の流れ、水深、底質等、変化に富んだ水際線が蘇り、豊かな自然環境が創出されました。

In a river reconstructed with the Nature Oriented River Works, a rich natural environment has been newly created through the restoration of diversified waterside line consisting of water flow, water depth, and bottom characteristics.



# ARRN

## Asian River Restoration Network

### アジア河川・流域再生ネットワークとは

アジア河川・流域再生ネットワーク (ARRN) は、主にアジア地域を中心とした河川流域の環境再生に関する情報交換を支援するネットワークであり、参加者の連携強化による環境再生の促進を目的としています。

河川・流域再生の事例や技術情報の普及、データベースの構築及び地域特性に応じた環境再生ガイドライン作成等の活動を通して環境再生技術の発展に寄与します。

### ネットワークの展望

失われた河川機能の回復や環境再生の機運が世界的に高まる中、河川流域に新たな価値が見出されつつあります。

ARRNは主としてアジアを中心に活動の幅を広げるとともに、世界各地のネットワークとの連携を図り、より豊かな環境再生に尽力いたします。

### About the Asian River Restoration Network

The Asian River Restoration Network (ARRN) is an Asia-based network supporting the exchange of information relating 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 for environmental restoration through its activities.

### Network Vision

As momentum builds around the world towards recovering the function of rivers and restoring the environment, new values are being discovered for rivers and watersheds.

The ARRN is striving to promote even more substantial environmental restoration practices, through broadening the range of activities undertaken in Asia.







## **Asian River Restoration Network Secretariat**

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

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102-0082

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E-mail: [info@arr.net](mailto:info@arr.net)

Website: <http://www.arr.net/>



Japan River Restoration Network (JRRN) has a role of ARRN Secretariat for first 2-year. JRRN Secretariat is managed by Foundation for Riverfront Improvement and Restoration of JAPAN (RFC).

<http://www.arr.net/jp/>