ARRN Asian River Restoration Network Volume 4 – December 2009

ARRN Newsletter

Asian River Restoration Network

http://www.a-rr.net/

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.

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ARRN Event News

ARRN's 6th International Forum on Waterfront and Watershed Restoration (29 Sep. 2009, Seoul, KOREA)

On September 29 (Tue.), 2009, the Sixth International Forum on Waterfront and Watershed Restoration was held by the Asian River Restoration Network (ARRN) in Seoul, Korea.

This year's international forum was co-held with the Fifth KICT International Workshop on River Environment, which was organized by the Korean Institute of Construction Technology (KICT). It allowed us to make ARRN known to concerned parties in Korea, and exchange information and opinions on river environment with them.



Opening ceremony

	The 6 th International Forum on Waterfront and Watershed Restoration Time and Date: September 29, 2009 15:00 – 18:00 Venue: KOFST International Convention Center, Seoul KOREA
	Organizer: ARRN, Korea Institute of Construction Technology (KICT), Korea River Association (KRA)
Program	
Opening A	Address Dr. Samhee Lee (Vice President of KICT), Dr. Nobuyuki Tamai (Chairperson of ARRN), Dr. Kook II Kim (President of KRA)
Lecture 1	Dr. Naoki Shirakawa (Tsukuba University, JAPAN)
	Flow Regime Restoration in Japan - Past, Present and Future
Lecture 2	Dr. Dongya Sun (Institute of Water Resources and Hydropower Research, CHINA)
	Progress of River Restoration in China
Lecture 3	Dr. Marco Baumann (Canton Thurgau, SWITZLAND)
	River Engineering and Management
Lecture 4	Dr. Hong Koo Yeo (Korea Institute of Construction Technology, KOREA)
ν.	Master Plan for Four River Restoration Project in Korea

🗄 Lecture 1: Dr. Naoki Shirakawa, Japan

Flow Regime Restoration in Japan - Past, Present and Future



First, the lecturer presented a summary of efforts for river restoration in Japan by giving a history of the revisions made to the River Law and their classification background, social of river restoration, and recent restoration projects. Then, there was an introduction of particular cases concerning river flow rate between upper and lower streams in Japan, and a discussion of basic ideas and past efforts to maintain a normal flow rate in rivers. Other topics included prospective studies to be further promoted in future, and value assessment of river environments. They were also significant for restoration of river flow rate.

Lecture 2: Dr. Dongya Sun, China

Progress of River Restoration in China



At the beginning of the lecture, the lecturer discussed issues concerning rivers and water environment that China is facing at present with photos. Also explained were the legal system and measures related to river environmental restoration which have been implemented by the Chinese Government to overcome those issues, together with statistical data on the effects of improving the water environment brought about by such efforts.

Then, the lecturer took up such topics as ideas and technology for river restoration, and methods to assess the soundness of rivers in China. Finally, to introduce case examples in China, detailed information on examples of water quality improvement in lakes and river restoration was provided together with photos.

Lecture 3: Dr. Marco Baumann, Switzland

River Engineering and Management



Starting with an explanation about the history of flood damags in Switzerland from the 1800s to the present date, at the beginning of the lecture, the lecturer raised an issue about river engineering and traditional concepts for river management. Following that, with regard to current policies for flood control in Switzerland, a detailed explanation was given from the perspectives of both environmental protection and social economy. Then, there was an introduction of a brief overview of the disaster that struck Switzerland in August 2007, and lessons learned from it. The lecturer also discussed how to establish river channels for the purpose of creating a space in a river, and securing sufficient water in both guality and guantity as the basic concept for river management in Switzerland.

Lecture 4: Dr. Hong Koo Yeo, Korea

Master Plan for Four River Restoration Project in Korea

First, with regard to the Korean Four Major River Restoration Project promoted by the Ministry of Land, Transport and Maritime Affairs in Korea, a detailed explanation of the background for the project was given with specific examples in Korea. Such examples included the effects of climate change, and degraded water environment and loss of river space due to an excessive focus on economic development.

Following that, the five objectives of the Four Major River Restoration Project were presented: "flood prevention", "securing water resources", "restoration of water quality and the ecosystem", and "regional development based on rivers", and "waterfront improvement led by local residents". A detailed explanation of the overall plan of the project was provided.

In the latter part of the lecture, the results of a cost-effect analysis on total project expenses were shown, and prospects for rivers restored by the project were offered together with pictures.



Through the forum, participants were able to understand the difference between countries in ideas and technology regarding river restoration, and to gain a new awareness of the significance of information sharing through networks.

Materials for each lecture given in the forum can be downloaded from the website shown below.

Download:

http://www.a-rr.net/jp/en/arrn/letter/arrn_event_news/1578.html



Lectures and secretariat member

"ARRN's 7th International Forum on Waterfront and Watershed Restoration"

will be held as special session of ISE2010 in Seoul, KOREA (September, 2010)

ARRN's "7th International Forum on Waterfront and Watershed Restoration" will be held in Korea as the special session of "8th International Symposium on Ecohydraulics 2010" in September 2010.

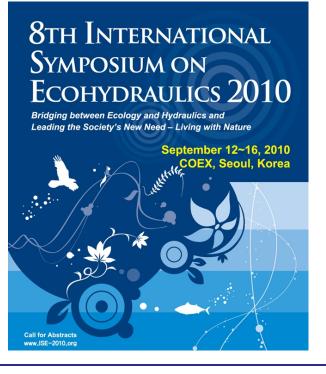
<Session Topics>

- Excellence in Engineering Practice in River and Waterfront Restoration (Technical Session for Two Hours)
- How to Develop Technology and Guidelines for River Restoration through Networks (a round-table meeting for two hours)

<Organizer> Prof. Nobuyuki TAMAI (ARRN Chairperson)

For detailed information, please visit to ISE2010 website.

http://www.ise-2010.org/



Report from ARRN Board

2nd ARRN Information Committee & Technical Committee Meeting (17 August 2009, Incheon KOREA)

On August 17 (Mon.), 2009, the Second ARRN Information Committee Meeting and the Second ARRN Technical Committee Meeting were held in Inchon City, Korea.

These committee meetings were held following First ARRN Information and Technical the Committee Meetings (September 2008/ Beijing City, China). In the Information Committee Meeting, discussions were held with regard to the ARRN mid-term action plan until the Sixth World Water Forum (March 2012), the organizational framework for network expansion, and future collaboration with the European Centre for River Restoration (ECRR). In the Technical Committee Meeting, there were active exchanges of opinions mainly on how we should upgrade the "ARRN River Restoration Guidelines Ver. 1" issued in March 2009, after a presentation of the latest report on river environment in each country.

Based on the results of these discussions, the ARRN Secretariat will promote coordination with related organizations in Japan, China and Korea, and will determine the future activity policies of ARRN in the Fourth ARRN Governing council Meeting to be held in Seoul City, Korea at the end of September 2009.





Participants
(Committee Members)
Naoki SHIRAKAWA (Tsukuba Univ.), Kazumasa ITO (RFC, CTI), Hongkoo YEO (KICT as proxy for KRRN), Hongkyu AHN
(KICT as proxy for KRRN)
(ARRN Secretariat)
Sayumi NUMATA, Katsuhiro GOTO, Akira WADA (Japan River Restoration Network)
(Observers)
Changwan KIM (KICT, Secretary General of KRRN), Kookil KIM (President of Korea River Association)

4th ARRN Governing Council Meeting (30 September 2009, Seoul KOREA)

On September 30 (Wed.), 2009, the "Fourth Governing Council Meeting" of the Asian River Restoration Network (ARRN) was held in Seoul, Korea.

First, each secretariat made a report on the activities of ARRN, as well as JRRN, KRRN and CRRN, after the Third Governing Council Meeting up to the present date. After that, Prof. Tamai chaired the meeting to hold deliberations and exchange opinions.



Through deliberations and exchange of opinions, we discussed various issues, including details of the International Forum for next year, the action plan for 2010 based on the policy of updating river restoration guidelines, and ARRN's organizational framework, such as the chairperson and secretariat for next year.

Dr. Baumann, who was a guest lecturer of the Sixth International Forum held on the previous day, participated in this meeting as an observer, and gave his valuable comments from the viewpoint of experiences in Europe.



Participants

Governing Council Member:

Nobuyuki TAMAI (ARRN Chairperson),

Junzo SAGO (ARRN/JRRN Secretary General), Chang Wan KIM (KRRN Secretary General), Dongya SUN (CRRN Secretary General),

Jeong Seok YANG (KRRN Information Committee), Dongsheng WANG (CRRN deputy Information Committee), Fang WANG (CRRN deputy Technical Committee), Kazumasa ITO (JRRN Information Committee), Naoki SHIRAKAWA (JRRN Technical Committee)

ARRN Secretariat:

Sayumi NUMATA(JRRN), Akira WADA (JRRN)

Observer:

Kookil KIM (KRA: Korea River Association), Hyo Seop WOO (KICT: Korea Institute of Construction Technology), Hong Koo YEO (KRRN secretariat, KICT), Jing ZHANG(IWHR: China Institute of Water Resources and Hydropower Research), Marco Baumann(Canton Thurgau, Switzerland)

ARRN Action Plan for 2010 (from Nov. 2009 to Oct. 2010)

Activity	Implementation Plan
Administration	 - 3rd Information Committee Meeting - 3rd Technical Committee Meeting - 5th Governing Council Meeting (2010)
Website (database, toolbox etc.)	 Setting up and development of CRRN and KRRN website Web link from ARRN website to each-RRN website (C, K, J) and Non-RRN member's website Accumulation of examples of river restoration projects in each-RRN website Renewal of ARRN website (Addition of ARRN outline, procedure of registration, event report, news, guideline, newsletter, annual report etc.)
Newsletter	- Every three months publication
News mail	- Test dispatch of JRRN news mail to ARRN members in English monthly (Headline only)
Forum and Workshop	- 7 th International Forum (2009.9, Korea as special session of ISE2010) - Other workshops / Regional Seminar
Reference Guideline	 Collection and Sharing of major examples of river restoration projects in each country Collection and Sharing of existing technical guideline of river restoration in each country Preparing for ARRN River Restoration Reference Guideline vol.2 (2010.9)
Publication	- ARRN River Restoration Guideline vol.2 (2010.9)
Public Relations (PR)	 Exchange with related organizations on river restoration Presentation in international symposium or events Meeting with related organization in Asia
Membership	- Expansion to Other Asian countries

Research Activity

Update of "Reference Guideline for Restoration by Eco-Compatible Approach in River Basin"

ARRN published a "Reference Guideline for Restoration by Eco-Compatible Approach in River Basin ver.1" in March 2009 as an introductory book to the technical guideline for River Restoration in Asia which ARRN is going to establish in future.



Reference Guideline for Restoration by Eco-Compatible Approach in River Basin ver.1

http://www.a-rr.net/jp/en/arrn/letter/publication/

Based on the discussion in the 2nd ARRN Technical Committee Meeting (held in Aug. 2009) and 4th ARRN Governing Council Meeting (held in Sep. 2009), ARRN is undertaking update of the guideline ver.1 supervised by the ARRN technical committee.

Interim Goal

- Guideline will be updated and published after the technical committee meeting every year as the interim report. (*ver.2* in 2010, *ver.3* in 2011)
- Guideline will be distributed at the 6th World Water Forum (March 2012).
- Main Update Contents (for ver.2)
 - General information on river will be added sufficiently.
 - More photographs which describe our message will be added.
 - Good practices / examples of river restoration project in Asian countries will be included, and not only good examples but also information/technology/photographs about problems with difficulty for solution will be included.

- Detailed explanations on a rough framework, manualized methodologies and concepts, as well as general information related to rivers will be included.
- Existing technical guidelines and reference materials such as books introducing general information about river and basin in each country will be introduced as reference material.

ARRN continues to report the progress on updating the guideline through ARRN website and newsletter.

Background of ARRN guideline establishment

The necessity of cooperating network, data base of the river restoration and river restoration technical guideline suits for an Asian monsoon region was proposed in the "River Restoration in Asian Monsoon Region" session on 4th World Water Form.

"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."

Based on the above proposal, ARRN regards preparing/updating/distributing river restoration guideline as one of main activities.

(1) Objective

To establish the suitable methodology and technology for river restoration in Asian monsoon region

- (2) Users/Customers General public making efforts for river restoration activity (not specialist)
- (3) Language

ARRN publishes the guideline in English, and ARRN member promotes and uses the guideline after translating it into own language.

(4) Task force

ARRN technical committee initiates the update operations while getting cooperation of ARRN and each RRN secretariat.

Special Topics

World City Water Forum (August 18-21, 2009, Incheon, Korea)

From August 18 (Tue.) to 21 (Fri.), 2009, the "World City Water Forum 2009 (WCWF 2009)" was held at the Songdo Convensia in Inchon City, Korea. It brought together about 5,000 specialists involved in city water issues, who exchanged information on up-to-date technologies and experiences.

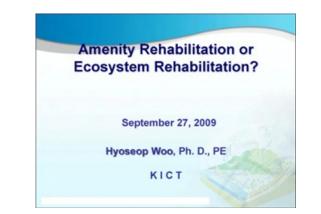
The ARRN/JRRN Secretariat member took part in the forum, and Ms. Numata (JRRN secretariat, Planning division, Foundation for Riverfront Improvement and Restoration) gave her presentation, entitled "Trends for Urban River Restoration in Asia and Efforts toward Establishing an International Network", at a technical session of "Restoration of Urban Stream Amenity".

During the forum, there were other sessions related to river environment on the theme of aquatic ecological restoration, regional revitalization through riverboat transportation, etc., in addition to urban river restoration, which introduced diverse case examples in Korea as well as other countries.



Website of WCWF2009 : http://www.wcwf2009.org/





Amenity Rehabilitation or Ecosystem Rehabilitation?

This file was presented in the Session 3 "Cases Studies of Urban River Rehabilitation" in the World City Water Forum held in Korea, August 2009, and presented again in the 7th Joint Seminar on Ecological Engineering between Korea and Japan at the annual meeting of Ecology and Civil Engineering Society in September 2009 in Saitama, Japan, with some more clarifications and additions by Dr. Woo. (Source: Dr. Hyoseop Woo, Senior Research Fellow of Korea Institute of Construction Technology (KICT))

URL: <u>http://www.a-rr.net/jp/en/book/</u>

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 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. In a country/region which RRN secretariat has already established, applicants to ARRN should be Note) 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) ARRN

Planning Division Foundation for Riverfront Improvement and Restoration (RFC)

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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). <u>http://www.a-rr.net/jp/en/</u>