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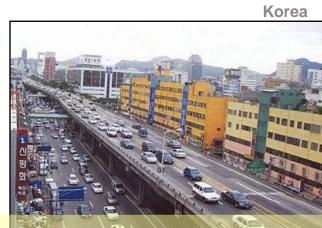


Problems of Rivers and Waterfront Environment in Asia



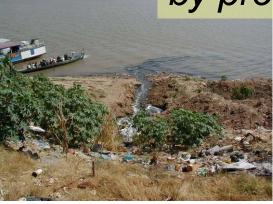
Japan

Cambodia





River environment was weeded out by process of leading life of people





Malaysia



Philippines



China

Problems of Rivers and Waterfront Environment in Asia

By the rapid population increase and development according to economic growth...

- □ Water quality deterioration
- Reclamation of river
- Deterioration of habitat
- □ Disappearance of hydrophile property etc.



Activities and research on river and watershed restoration are being carried out throughout the world. These activities are broad in scope, and include....

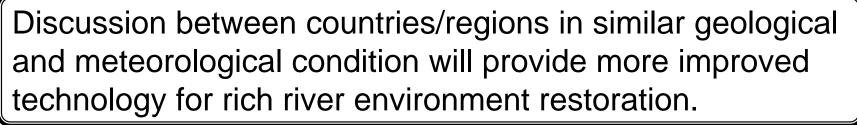
Improvement of water quality and quantity
Improvement of urban landscaping, riverfront amenities
Restoration of the natural environment, ecosystem
Urban and human relationship restoration etc.





Background surrounds River Restoration in Asia

- River restoration is a new technology compared with flood control and water utilization.
- Applicable technologies are required based on accumulated experiences and knowledge.
- Asia Monsoon region has specific characteristics.
 - Extensive variation of seasonal rainfall or discharge
 - Growth of rice cultivation on river plains
 - Various organisms in paddy fields
 - Rapid concentration of the population into urban areas







Measures to promote River Restoration in Asia

Summary of Discussion in the Session on 4th World Water Forum (2006)

- River restoration is of vital importance to socio-economic sustainable development in parallel with flood and water use management.
- Basin is a basic unit for river environment management.
- Establishing suitable methodological technology for river restoration that suit for Asian monsoon region is necessary.
- In Asia monsoon region, human-influence to a cultural landscape is harmonized with the ecosystem traditionally.
- 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.
- It is urgent to establish <u>a river restoration guideline suitable for the Asian monsoon</u> region for countries with similar social and natural conditions.





Asian River Restoration Network (ARRN)



Establishment of ARRN (9 November, 2006)



Dr. H. S. Woo (Korea), Dr. W. K. Liao (China), Dr. Takemura (Japan)



3rd International Forum on Waterfront and Watershed Restoration (Tokyo)

ARRN Establishment Ceremony and "International Forum on Waterfront and Watershed Restoration" was held in Tokyo, JAPAN. (Nov. 2006)





2.Objective

ARRN is an *international non-political 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.

(1) ARRN develops a network for exchanging practices, knowledge technical information and experiences on the restoration of rivers and watersheds in Asia for engineers, scientists, ecologists, managers and public through ARRN website and events.

(2) ARRN enriches the participants' knowledge and scientific technology through establishing a reference guideline on river and watershed restoration suitable for the Asian monsoon region for countries with similar social and natural conditions.





3.Organization Organization Structure

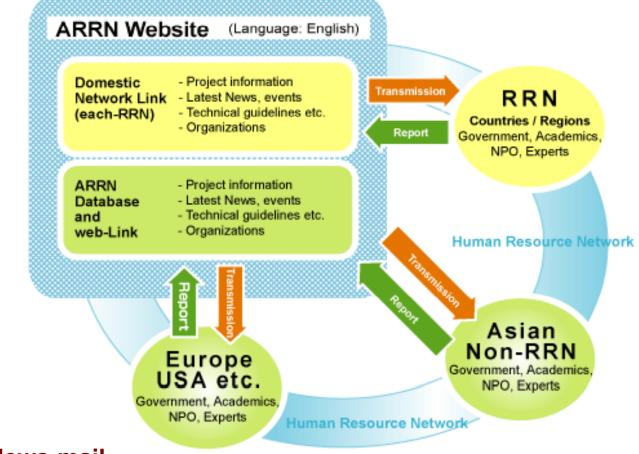
Asian River Restorati	on Network (ARRN)	
	River Restoration Network (Country or Region)	KRRN: Korea River Restoration Network
	JRRN Organization Organization Individual Organization Organization Individual	<u>http://www.krrn.net/</u> [Secretariat] Korea River Association (KRA) <u>http://www.riverlove.or.kr/</u>
Chairman of Council Give Direction	CRRN: China River Restoration Network	
Secretariat Secretary General Secretariat Staff		and Hydropower Research (IWHR)
Support Activities	X-RRN Organization Individual Organization Organization Individual	JRRN: Japan River Restoration Network <u>http://www.a-rr.net/jp/</u> [Secretariat] Foundation for Riverfront Improvement and Restoration (RFC) <u>http://www.rfc.or.jp/english/</u>
LEGEND RRN Secretariat Member of Governing Council General Participants	Non-RRN (Individual Organizations, persons) Organization Organization Individual Individual Organization Organization Individual Individual Organization Organization Individual Individual	

ARRN is organized with cooperation of national networks "River Restoration Network (RRN)" in each participating countries/regions, Non-RRN members and secretariat.





Outline of ARRN Activities



1) Website

- 2) Newsletter and News-mail
- 3) International Forum and Regional Workshop
- 4) Preparing Guideline for River Restoration

Introduction of ARRN

4. Major Activities 1) ARRN Website and RRN website

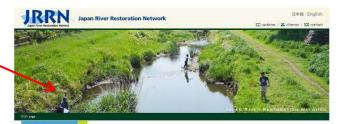
ARRN 🖥 Updates 🛛 📥 Site Map 🔗 Contact Us Asian River Restoration Network ation on the restorat ARRN Members -----**JRRN** KRRN Non-RRN Members

ARRN website (http://www.a-rr.net/)

KRRN website (under construction)



CRRN website (http://www.cnrrc.cn/)



What's New

ARRN

The Asian River Responsion Metwork was solublehed in Rive 2008 to support the exchange of information relative to and watersholds. JRRN has a rol of ARRN secretariat for first

g Go to ARRN website

URPN Endich vebalte has been reneved 3 URPN Endich website was reneved on 1st April 2000. SOMare details

TARAN Annual Report 2007" has been sublished 3 DOMore details

20030410 (Publications) III "Report of Riverfront Research Institute No.18 (Jepan, 2007.97" has been uploaded. 2003/0221 (Nova and Europa)

I JEEN joined NABBO on 8rd NABBO General Meeting

2003/0121 (News and Events) 21 JRRN Workshop on River Restoration and Victor Environmental Preservation in China" was held ©1 January 2008, Tokyal

2007.121 (ARRN Internation) © "Ind ARRN Governing Council Meetine" was held(1 December 2007 Tokyo)

2007/17.80 (ARBA) Information) © "The 4th International Forum on Waterford and Watershed Rectoration" user held SD Massarian 2007. Tokyol

2007.10.23 (AREN Information) Z AREN participated in the 3rd Southeast Asia Water Forum, Regional Workshop in Malaysia

JRRN website (http://www.a-rr.net/jp/en/)

2) Newsletter / Newsmail etc.

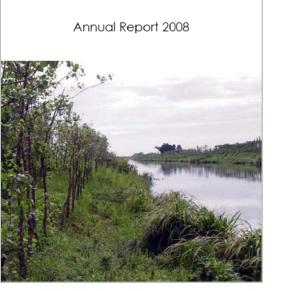
ARRN aims to share information through the newsletter and news mail with members.

Asian River Restoration Network

ARRN

inge of information related to environmenta	Auch-based non-political refwork supporting the I reduction of alvers and watersheds, through the of the world. The retwork aims to contribute to the ronmental restruction through to activities.		
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port from ARN Board search Activity eolar Topics. bilochiors.			
	ARRN member)		
RRN Event News			
	the Fifth World Water Forum Istanbul, Turkey)		
Match 15 to March 22, the Fifth Wold Warer was hold in Istabul, Turkoy under the of "Bridging Divides to "Walks." Now than people tom over 130 counter concerned trader gathered togather. They discussed is solutions for water problems at more than volves.	change, and adaptation methods for water managament, with the thome of Climato Change and Water Notems. This torum focus and an Octobal Warning, However, here we separt on the forum from the viscopists of the Natural Environment, Ecosystems, and River Renoration.		
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r is view of the toot that Akén was stand based on the recommendation of a lossific or based on the recommendation of a line to tail fourth World Water Forum (March Media), where the Akén Alara I took pati in the laters took patient and patients of the characteristics of the laters address cound by clientle and patient and patient and patient and patient and patients.			

ARRN Newsletter



ARRN Annual Report



JRRN Newsletter

3) International Forum and Regional Workshop



The 3rd International Forum on Waterfront and Watershed Restoration (Nov.2006, Tokyo)



JRRN Workshop on Environmental flow (May.2009, Tokyo)



The 5th International Forum on Waterfront and Watershed Restoration (Nov.2008, Beijing)



ARRN / IAHR Joint Seminar on Ecohydraulics and Environmental Hydraulics (Sep.2008, Tokyo)





4) Preparing Guideline for River Restoration

•About 70 existing guidelines concerning river restoration has been collected as a preparatory step for establishing our own guideline, and ARRN continues to collect previous guidelines.

•ARRN is currently preparing a system that allows access to these existing guidelines on the website.

•1st ARRN technical committee, consists representative of each RRN, was held in Sep. 2008 in Beijing to discuss preparing for a guideline of river restoration.

•ARRN published "Reference Guideline for Restoration by Eco-Compatible Approach in River Basin ver.1" in March 2009 and distributed it in the 5th WWF. ARRN continues to update the guideline for the 6th WWF.



Guideline Database



ARRN Guideline ver.1 (March 2009)

Introduction of ARRN

4. Major Activities5) Technical Training





5. Membership Benefits

Joining the ARRN is Free!

To become member of ARRN, please contact to <u>secre@a-rr.net</u> 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

Member Registration URL: http://www.a-rr.net/membership/registration.html





6. Future Activities

ARRN and the each-RRN aim to provide required knowledge and techniques of river restoration as well as the opportunities to exchange relevant information for all concerned people, by which to contribute to the creation and conservation of waterfront environment.

(1)Establish the platform for information sharing in order to achieve more efficient information exchange among the ARRN members. (**Improvement of the ARRN website**)

(2)Compile the advanced cases of river restoration in Asia for the increased information volume and technical strength in order to contribute to the further improvement of the ARRN members' technical level. (Compilation of River Restoration projects and toolbox)

(3)Develop a reference guideline for river restoration in Asia, while continuously collecting the available existing guidelines relevant to river restoration. (**Development of a guideline**)

(4)Provide opportunities such as international forum, workshop and seminar, in which members can interact directly with each other and exchange information. (<u>Active</u> <u>organization of events</u>)







Thank you for your kind attention.

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

Asian River Restoration Network secretariat

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Japan River Restoration Network (JRRN) has a role of ARRN Secretariat currently. JRRN Secretariat is operated by *Foundation for Riverfront Improvement and Restoration* and *CTI Engineering Co., Ltd.* as joint study on development of international information network of river environment. <u>http://www.a-rr.net/jp/en/</u>