

## **Summary of International Workshop on Freshwater (Lakes and Marshes) Pollution Prevention control**

Yuhei INAMORI, Motoyuki MIZUOCHI and Hideyuki SHIMIZU  
NIES

“International Workshop on Freshwater (Lakes and Marshes) Pollution Prevention Control” was held in October 12, 2004, as a joint workshop of the 1<sup>st</sup> workshop of TPM among NIES, NIER and CRAES and 4<sup>th</sup> Workshop of TEMM (Tripartite Environmental Ministers Meeting) project. The purpose of this joint workshop is to exchange the information and to develop collaboration activities for restoration of freshwater environment among each country.

First, Dr. Yohichi GOHSHI, President of National Institute for Environmental Studies (NIES) Japan, open the workshop talking on his hope of this 1<sup>st</sup> workshop in TPM activity. Then, Mr. Satoshi TANAKA, Director of Environmental Cooperation Office, Ministry of the Environment, Japan, pointed out the importance of TEMM activities and the collaboration of NIES, NIER and CRAES.

Dr. Yuhei INAMORI presented about “Strategies on establishments of eco-sound water bodies using bio-eco engineering system for watershed management in joint research project approved by the agreement of TEMM among Japan, China and Korea” in his keynote speech.

In the Session 1, chaired by Dr. Motoyuki MIZUOCHI, 6 researchers (Dr. Nimal Rohan CHANDRASENA from Australia, Dr. JIN Xian Can, Dr. WANG Sheng Rui, Dr. JIANG Xia from China, Dr. Nguyen Sy NGUYEN from Vietnam and Dr. Werawan RUANGYUTTIKARN from Thailand) presented the topics related to water quality issue mainly focused on the toxic blue green algae problem in each country. For example, in Vietnam, the toxic algae were commonly observed in many water reservoirs and were exceeded the WHO guideline level in some cases. It became clear that an urgent countermeasure was necessary with the seriousness in toxic algae

problem in the Asian region from these presentations. And, it was also recognized that three countries of Japan, China and Korea should play a key center to promote the international joint research in Asia-Oceania region.

In the Session 2, chaired by Dr. Yuhei INAMORI, other 6 researchers (Dr. PARK Jun Dae, Ms. PARK Sang Mi, Dr. RHEW Doug Hee from Korea, Dr. LU Xi Wu, Dr. KONG Hai Nan from China and Dr. Yoshimori Katou in Japan) presented issues on watershed management and water quality renovation technology. An advanced watershed management program which was specially shown by a South Korean research group got many of the participant's concern. Moreover, the example of the Japanese public works about the watershed management was shown by Mr. Katou concretely, and an discussion was concentrated about the adaptability to another country. It became clear that joint research on the comprehensive watershed management in the Asian region was necessary from now on through this session.

At the workshop closing, Dr. Wei MENG, President of Chinese Research Academy of Environmental Sciences (CRAES) China and Dr. Deok-Gil RHEE, President of National Institute of Environmental Research (NIER) Korea addressed the great success of the workshop under TPM and TEMM activities with fruitful discussion and confirmed the importance of the collaboration among Japan, China, Korea and other countries.

During this joint workshop, it was confirmed that the water environmental problem in the Asian region was very common and renewed issue to each country and needed to solve urgently. Therefore, it must be an important subject to promote the joint research among three countries, Japan, China and Korea in order to develop the countermeasure technology and to plan the strategy for improve the water quality. The experience of three countries' collaboration should be applied into other Asia-Pacific regions and developing countries in future.

The workshop of the next year will be held in South Korea. We must discuss how to apply our collaboration experience to other countries/regions at the next workshop.

We express our appreciation of all participants again, and we can declare to promote our collaboration more strongly from now on.



## Closing Address

RHEE Deok-Gil,  
President of NIER, Korea

It is my great honor to give a closing address in front of Dr. Yohichi GOHSHI, the president of NIES, Mr. MENG Wei, the president of CRAES, presenters and all the participants. I am sure that this “International Workshop on Freshwater (Lakes and Marshes) Pollution Prevention Control” made the second Tripartite Presidents Meeting the more meaningful and fruitful event.

Currently, Japan, Korea, and China are working together on the “Freshwater Pollution Prevention Project” which is one of the following-up projects of Tripartite Environment Ministers Meeting (TEMM). Three countries have exchanged and shared information, experience and technology of each other through this joint project. Also, this project derived the joint effort of three countries on the improvement of water quality and prevention of eutrophication in the freshwater. Furthermore, I expect that outputs of this workshop will help improve the water problems not only of Japan, Korea, and China but also of the rest of the world in the future.

In the 21st century, not only would our country confront water shortage problem but also many countries would. However, the demand for clean water is getting increase and we cannot satisfy the people's desire for better life unless we preserve safe drinking water. An effort for preserving and providing clean drinking water is not just a hope of our society but a stepstone for making a sustainable society. I think we are borrowing the natural resources from our next generation. Thus, we must try not to owe a debt from posterities and hand over clean natural resources to them by collaborating together and developing advanced watershed management techniques.

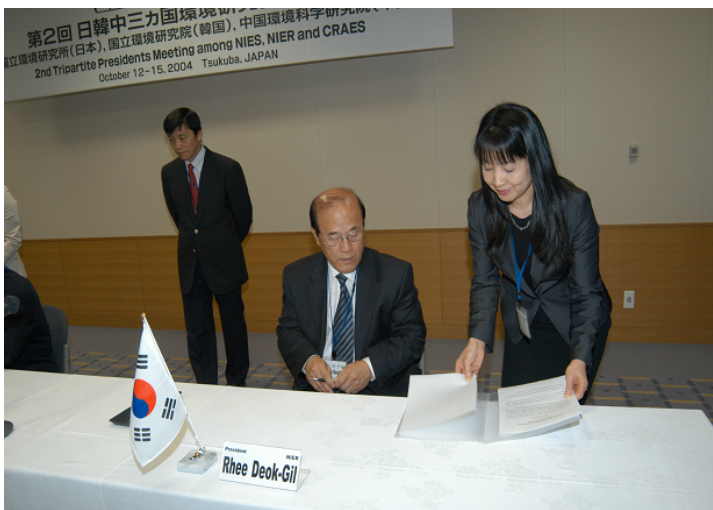
Likewise, the water problem is on-going issue in Korea. To resolve the

water problems, the Korean government has established comprehensive water management plan for major rivers such as “Comprehensive Han River Water Management Plan,” since 1998. The Plan for the other major three rivers was also established. Then, as a part of prior protection plan of the comprehensive plan, we introduced Total Maximum Daily Load (TMDL) program. Although TMDL is in the beginning phase, the enforcement of TMDL program has derived a turning point in the water management plan and promoted multiple efforts into the improvement of water quality.

I think that this wide knowledge and various experiences about watershed management and water quality renovation technology was discussed in this workshop by the specialists from all over the world, like Yuhei INAMORI from Japan and JIN Xian Can from China to name a few, could help us to make efforts for the improvement of water quality and prevention of eutrophication in the freshwater.

Finally, I'd like to express my gratitude again to Dr. Yohichi GOHSHI and all the staffs who prepared this successful workshop for us. And also I'd like to thank you to all the speakers from Australia, Vietnam, Thailand, and China for coming all this way to participate in the workshop and giving us the presentations.

Thank you very much!



## Closing Address

MENG Wei,  
President of CRAES, China

The Respected Chairman, ladies and gentlemen,

I would like to express my heartiest gratitude to President Yohichi GOHSHI for his inviting me to attend the second Tripartite Presidents Meeting (TPM) and the parallel Freshwater Pollution Prevention Control Workshop. The holding of this workshop is really instructive expansion and development of TPM meeting.

First of all, on behalf of CRAES, I would like to offer the congratulations on the success of this workshop meeting. In the past two decades, experts from three national environmental institutes of China, Japan and Korea comprehensively communicated and cooperated in a good many fields, which have expanded especially during recent ten years. However, in my opinion, the water-environment pollution control experts, who are also the organizers and the participants of this workshop, have done the best.

At the beginning of this year, the Annual Tripartite Presidents Meeting System was set up among the three research institutes. I am sure, under the efforts of President Yohichi GOHSHI, the Second TPM meeting will promote the TPM system to be of more consummate organization and more open viewpoint. This is also the prominence contribution of NIES towards TPM.

The common thing between China, Japan and Korea is that we are all facing series of problems in water pollution control. The case is more serious especially for China, as Chinese economic development and pollution control dropped comparatively behind Japan and Korea. The workshop has provided us good opportunities of mutual study and communication. I got to know that NIES, NIER together with CRAES, had worked together doing

research and discussing about each year's water quality improvement of Hang Zhou West Lake. Here I would like to express my sincere thanks to them. My thanks next is for Professor Yuhei INAMORI, who has made great contribution to the control of eutrophication in Chinese lakes and the dissemination of the Johkasou equipment in China.

Finally, please let me congratulate again the success of the TPM-paralleled workshop.

Thank you.

