

The 6th

International Symposium
of Asia Institute of Urban Environment

Energy Conservation and Carbon off in Asia City



EDITORS YIN Jun, WEI Xindong, DAI Xin

Organized by

- ◆ Jilin Association for Science and Technology
- ◆ Jilin Institute of Architectural and Civil Engineering
- ◆ Asia Institute of Urban Environment

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Environment

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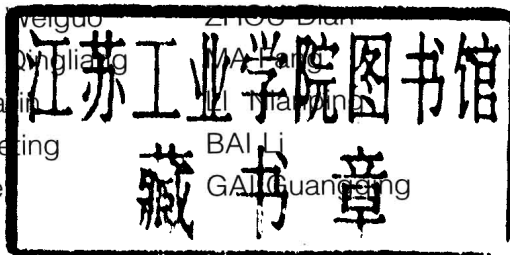
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OJIMA Toshio, male, was born in Toyama City, Japan in September 1937, Honorary Professor of Waseda University, Chairman of Asian Institute of Urban Environment. He was a professor of Waseda University, director of Graduate School of Science research center of Waseda University, director of Architectural Institute of Japan, Minister of Graduate School of Science of Waseda University, won the Special Performance Award in Huambo Architectural Institute of Japan, published Public Health Institute of the air to reconcile tours Papers, Architectural Institute of Japan Award Papers, acquired Recognition of credit from the Environmental Protection, award Okuma Memorial Academic, published 87 books at home and abroad and over 1000 papers.



Yin Jun, male, was born in Jilin City, China in August 1954. He is member of the Party group of Science and Technology Association of Jilin Province, Vice-Chairman (director-level), Professor and doctoral tutor now. Served as president of the Jilin Institute of Architecture and Engineering. part-time doctoral tutor of Harbin Institute of Technology, a professor of Jilin University, Visiting research member of Waseda University, Extraordinary Professor of Kitakyushu University, vice chairman of the Asia Urban Environment Institute, director of China Civil Engineering Society, director of National Water Advanced treatment Research Council and so on. National middle-aged and young experts with outstanding contributions, directly linked to the central high-level experts, returning Chinese students and scholars studying abroad with outstanding contributions, the first and second levels of selected staff of "National Million of talent project", the State Council special allowance winner, the National Outstanding Environmental science and technology worker.

He has been engaged in water pollution control and wastewater research and teaching for a long time, published over 200 papers in Chinese, English, and Japanese, published 8 books at home and abroad, completed more than 20 provincial-level scientific research, including 10 ministerial-level First, Second, Third prize by the scientific and technological progress and 10 utility model patents, trained more than 40 Doctoral and Master's degree students.

JILIN ASSOCIATION FOR SCIENCE AND TECHNOLOGY

Jilin Association for Science and Technology (JAST) is a mass organization of the scientific and technological workers in Jilin Province. Led by the CPC Jilin Committee, JAST is one of the component parts of CPPCC Jilin Committee. JAST is composed of various academic and professional societies, and municipal level and prefectural level associations for science and technology. Currently, JAST has 106 provincial societies, associations and institutes, which concerns Science, Engineering, Agriculture, Medicine and frontier subjects, 9 municipal and prefectural level associations for science and technology, and 60 county and district level associations for science and technology, with more than 300,000 members, of which scientists and engineers are the mainstream.

JAST was founded in November 1958, formerly as Changchun Branch of ALL-China Union of Special Societies of Natural Science and Jilin Provincial Association for Science and Technology Popularization. In the past 50 years, JAST insist on rendering better service to the economic and social development of the country, to the enhancement of scientific literacy for the whole nation and to the needs of scientific and technological workers. The major tasks of JAST are to sponsor and organize scientific and technological workers to develop academic exchanges and advance innovation; to popularize scientific and technological knowledge, promulgate scientific thinking and methods, and conduct activities of science and technology among the youth and teenagers; to voice the opinions of scientific and technological workers and safeguard their lawful rights and interests; to organize scientific and technological workers to participate in the making of policies and laws concerning science and technology and in the political consultation and democratic supervision over the province affairs; to provide advisory and consulting service on science- and technology-related issues; to organize international science and technology exchanges, promote international cooperation, and develop friendly relations with overseas scientific and technological organizations and scientists.

Jilin Institute of Architectural and Civil Engineering

Jilin Institute of Architectural and Civil Engineering of P.R. China is one of the key general higher institute of Jilin Province. It is located in Changchun, the capital of Jilin Province. Founded in 1956, it now has multilevel educational programmes of postgraduate education, undergraduate education, higher vocational education. The campus area is 700 thousand square meters of building area, accommodating over 10, 000 full time students.

There are 15 teaching units including School of Architecture and Planning, 12 postgraduate specialties, 29 undergraduate specialties and 4 senior vocational specialties, among which there are over ten leading specialties in the province, such as architecture, civil engineering and municipal engineering.

The institute has rich resources by employing faculty of nearly 1000, including 306 with the technical titles of professors and associate professors. It is an excellent teaching and researching team equipped with senior brains awarded as national and provincial qualified persons of outstanding contribution, experts receiving allowances from the State Council as well as doctoral and master supervisors.

The institute insists on taking teaching as the working center while making great efforts to improve teaching quality. Currently, it has tens of high qualified courses at department and province level and elite courses at province level. More than 30 students practice bases including the organizations with the first-class qualification, such as Architecture Planning Institute, Project Supervising Company, Reconnaissance Company, have been set up inside and outside the campus for serving the practical teaching. During "the Tenth Five-year Project", the institute has undertaken 95 national and provincial scientific research projects with nearly ten millions of research funds; simultaneously, over 20 scientific research awards above the provincial level have been obtained, among which there are 10 Provincial Science and Technology Progress Award. Recently, the faculties have published over 1700 pieces of essay, 48 academic works and textbooks, among which 35 pieces of academic papers have been included by international key retrieval publications, such as EI, SCI, ISTP etc.

The institute launches overseas academic exchanges actively. It has built up a close relationship with colleges and research organizations of England, American, Japan, Russia, Canada, Germany, Argentina and South Korea for running joint school programs, personnel training and visits. The institute has invited more than a hundred experts from over ten countries to deliver excellent academic lectures.

Asia Institute of Urban Environment Purpose of Establishment

President of the Asia Institute of Urban Environment, Toshio OJIMA

In the latter half of the 20th century, the construction of a new industrial city with high economic growth in Japan had been promoting the new town construction and urban redevelopment as a labor-intensive. As a result, it caused extensive urban pollutions, such as noise, vibration, subsidence, air pollution and water pollution, etc.

Tokyo Olympic Games, Osaka World Expo, Tsukuba Science Expo was designed some national project activities in those days. Through this sort of activities, people acutely felt the need and importance of urban environmental engineering.

In 1970, Japan's first "Urban Environmental Engineering Course" was established in the Department of Architecture of Waseda University. To the end of 2000, OJIMA lab had fostered excellent human resources to the society, including 700 graduates, 220 person with a master's degree, 50 doctoral degree holders and 40 foreign students from Asian countries.

Asia trend will probably determine the success or the failure of the urban environmental problems. Steady progress in tackling environmental problems with the development of environmental cooperation in Asian countries is the important approach to figure out environmental protection issues.

The purpose of international organization establishment is to provide many opportunities for researchers from each Asian country to share information with each other. On other hand, through interaction everyone's interest in the further development of Asian urban environmental research should to be reaffirmed.

The establishment purpose of Asia Institute of Urban Environment in the early 21st century is to attract the old members of OJIMA lab who is active in the urban environmental field, to have an academic debate. And here we dare to declare that to make an effort to establish a worldwide Institute, on the basis of investigation results as well as abundant sources of information from each country.

Outline of Asia Institute of Urban Environment

■ Purpose

This corporation is to exchange information on the urban environment in Asia, and to contribute to the development of advanced learning technologies in this field.

■ Types of Specified Nonprofit Activities

1. Activities for promoting environmental conservation

2. Activities for promoting science and technology
3. Contact on the activities of groups management, advice or assistance activities

■ Business Types

1. Businesses about specified nonprofit activities
 - a. Issues of Journal and official publication, etc
 - b. Holding research presentations, debate, lectures, and workshops, etc
 - c. Based on the collection of World environmental information and its analysis, to create and to publish the [Integrated Urban Environmental Database in Asia]
 - d. Promoting the [Asian Urban Environmental Information-sharing] by experts who study related to Asia's urban environmental problem and urban environmental policies, using internet.
 - e. Interaction with relevant domestic and international conferences
 - f. Others, research promotion related to the of urban environment

■ Members

1. Full Member
Individuals to join and to support the purposes of this corporation
2. Student Associate Member
Students to join and to support the purpose of this corporation
3. Supporting Member
Individuals or groups to make a donation and to support the purpose of this corporation
4. Honorary Member
Individuals who are largely attributable to this corporation

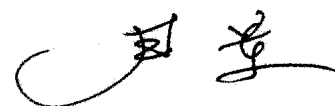
PREFACE

The energy short and environmental pollution is one of main questions which the world faces now. The realizing economy, energy and environment coordinated development, the preventing possible environment risks, the promoting economic society sustainable development and the realizing low-carbon economic society are major problems for deciding the 21st century human development perspectives. The environmental protection and the energy development research involve microbiology, chemistry, material science and engineering science. At present there are many key scientific problems and technical bottlenecks need to be solved. They also need for a worldwide cooperation of the scientific research workers.

Asia Institute of Urban Environment, Jilin Association for Science and Technology and Jilin Institute of Architectural and Civil Engineering will hold the 6th International Symposium of AIUE on Conservation and Carbon off in Asia City in September 20, 2009 in Changchun . The symposium will invite the domestic and foreign renowned experts, scholars, engineers and technicians to widely discuss and exchange the forefront theories and the engineering technical questions on the environment, energy, safety, health and so on.

This symposium is the first international conference that Asia Urban Environmental Institute hold in Jilin province, China . It will have the positive effects for promoting the theoretical and technological research of the related areas and the international cooperation and exchange. The symposium will also provide a platform and development opportunities for the experts, scholars and entrepreneurs.

This symposium has collected 184 excellent papers from China, Japan, Korea, United States, Egypt, Jordan, Australia and so on. The authors involve more than 200 experts and scholars. The paper contents include the urban environment improvement sustainable theory and practice, urban environment planning and technical sustainability, urban environment and energy, education and communication etc.



Dr. YIN Jun

Vice Chairman of Jilin Association for Science and Technology , CHINA
Vice Chairman of Asia Institute of Urban Environment
Supervisor of Harbin Institute of Technology
Professor of Jilin Institute of Architectural and Civil Engineering

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