



NEWSLETTER

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April 2013

JAPAN SOCIETY OF MATERIAL CYCLES AND WASTE MANAGEMENT

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Future Activities in the International Community of JSMCWM

From March 12 to 16, 2013, I visited China with Dr. Kida, President of Japan Society of Material Cycles and Waste Management (JSMCWM), and other International Committee members of the society. The aim was to discuss how to develop and advance academic cooperation between JSMCWM and The Society for Solid Waste of Chinese Society for Environmental Sciences (SSW-CSES) and to learn China's recent environmental policy trends and technologies for waste management by visiting its local waste treatment plants. During our visit we mostly had clear and sunny days as if there was no concern about PM 2.5. However, we heard a lot of PM2.5- related issues and got the impression that China was now trying to do their best to analyse the particles and take measures to deal with the problems. The details of this technical visit will be reported from other International Committee members. In this newsletter, I would like to pick up some points of our visit to China from the standpoint of running the Society.

Our society concluded a Cooperation Agreement with SSW-CSES in November 2011, and academic exchange among the two societies has been underway since then. For example, many JSMCWM members joined the 7th ICWMT (International Conference on Waste Management and Technology) in China in autumn 2012 and shared mutual understanding with SSW-CSES members. Our members' visit to China this time was one of a series of official interactions between the two societies.

We reaffirmed that the development of international journal editing would be a key point for international academic cooperation. Journal of Material Cycles and

Waste Management (JMCWM) is an English journal published from our society in cooperation with Korea Society of Waste Management (KSWM). JMCWM has reached to Vol.15 in 2013 since its first publication in 1999. It received Impact Factor in 2010, being proved as an international academic journal. We introduced an electronic submission and review system in 2011. Selected excellent papers presented at 7th ICWMT are now being reviewed for making the Special Issue in JMCWM. Not only this time, but also we have been making special issues based on international workshops. We have come to realize that academic exchange through this international journal can be critically effective to work harder together and promote mutual cooperation among 3R and waste researchers in the Asia-Pacific region.

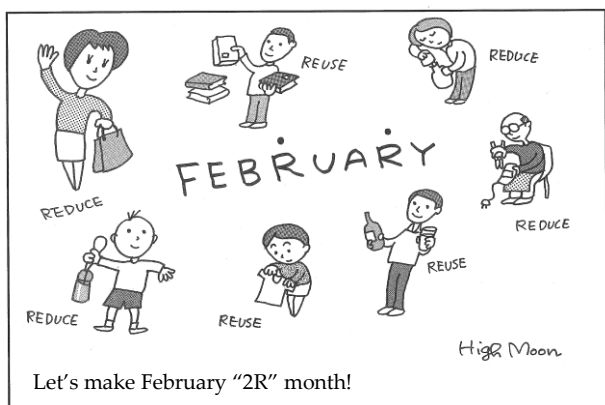
Another key point that was highlighted during the discussion with Chinese academic people was the issue on how to promote academic exchanges together with business interactions such as sharing realistic policies, technologies and facilities. Most of related parties in the Asian region expect to have a chance to visit actual facilities and to learn advanced technologies and skills. I believe that providing a platform that serves as a bridge for sharing related technologies will open new possibilities for many stakeholders. Therefore, the second key point for facilitating international academic cooperation is to strengthen the bridges from both academic and business aspects.

Aiming at developing 3R initiatives in the international community and promoting academic exchange among related members in the Asia-Pacific region, the Expert Meeting on Solid Waste Management in Asia and Pacific Islands (SWAPI) has been held since 2005. With financial support from Ministry of the Environment, Japan, SWAPI has been held mainly in Japan 1-2 times a year, as well as meetings in Korea, China and Taiwan. JSMCWM has been serving as a secretariat of the SWAPI meetings. It hosted the 12th SWAPI in Tokyo this February 2013. And along with the next 13th meeting in Kyoto from March 10 to 12, 2014, it was approved by many members to have 3R International Conference on

Material Cycles and Waste Management (3R International) at the same time (<http://3r-2014.org/>).

I think we can say that the conference will serve as a platform of academic exchange in 3R and waste management research fields, and open its door to the world from the Asian region. We will do our best to arrange the conference, and make the ideas and opinions from related members and stakeholders heard. We are looking forward to seeing you all participate in the conference.

(Shin-ichi Sakai)



There are many months with letter "R" though; February is the only month with 2"R".

Report on the 12th SWAPI

The expert meeting on Solid Waste Management in Asia and Pacific Islands (SWAPI) has been held every year since 2005 to establish regional cooperation aimed to improve solid waste management effectively and efficiently guided by the 3R principle. The 12th SWAPI was held at Surugadai Memorial Hall of Chuo University, Tokyo, from the 26th to 28th of February, 2013.

The participants were as follows.

- Foreign guests (11 from 10 countries)

China (1), Korea (1), Philippines (1), Vietnam (1), Cambodia (1), Indonesia (1), Malaysia (1), India (1), Bangladesh (1), and Taiwan (2)

- Japanese participants (57)

Executive committee (15), Presenters of general presentation session (37), and Presenters of Environment Research and Technology Development Fund Session (5)

Details of the program are as follows.

- Day1: SWAPI Book session, general presentation

sessions.

- Day 2: General presentation sessions.
- Day3: Environment Research and Technology Development Fund session, and the Expert Meeting.

The SWAPI Book session saw the release of the second edition of the SWAPI Book, which is on the state of waste management in Asia and Pacific Islands. The authors of each chapter of the book presented on the contents of their respective chapters.

There were nine general presentation sessions, with 53 presentations. Session 1 was about disaster waste management, five academic papers were presented. Sessions 2 and 4 were about Hard-to-Treat Waste, with 10 presentations. Sessions 3 and 7 were about Waste Treatment Technology, with 9 presentations. Session 8 was about Planning and Policy, with 4 presentations. Sessions 5, 6 and 9 were about case studies, with 11 presentations. It was a very good opportunity for young Japanese and foreign researchers in Japan, to exchange opinions with experts of waste management from other Asian countries.

Environment Research and Technology Development Fund Session was a research presentation on the "Research Project for Establishing a Sound Material-Cycle Society, FY 2011". This fund, established by Ministry of the Environment, provided the funding for this research. It was also a good opportunity for Asian experts and participants to understand the research of sound material cycle society in Japan.

Experts' meeting was for discussion of building waste and 3R networks in each country and the future of SWAPI meetings.



(Takashi Miyagawa)

China Visit to Exchange Opinions on Waste Management

An official visit was made by the Society of Material Cycles and Waste Management to China to promote future contact and information exchanges for four days from 12 March 2013.

The main information presented from the Japanese side were the activities of the society and the current situation of waste management in Japan, and in particular, word was spread about next spring's 3R International, what it will be about and why its being held, as well as scouting for participants.

Details of the visit are as follows.

When: Tues. 12 March 2013 to Sat. 16 March 2013

Where: Beijing – Tsinghua University, the Japan-China Friendship Environmental Conservation Center, and the Environmental Sanitation Engineering Technology Research Center of Ministry of Housing and Urban-Rural Development.

Tianjin – Tianjin Eco City, Tianjin Dowa Co., Ltd.

Shanghai – Pudong Yuqiao Household Waste Incineration Electricity Generation Plant, Puchong Municipal Waste Incineration Center and Landfill

Participants: Akiko Kida, Shinichi Sakai, Atsushi Terazono, Misuzu Asari, Masato Ohno, Susumu Yoshida,

LONG Jisheng (logistics and interpreting),

Keiji Tomoda, Shigeko Yamaguchi (logistics).

Visit content:

● 1st day (Tuesday 12th of March)

Participants arrived from Kansai and Narita airports to Beijing Airport. First stop was the School of Environment at Tsinghua University for a discussion and exchange of opinions. The discussions with four people from Tsinghua University, including Professor Li, were fruitful and lasted about 2 hours.



Group photo in the foyer of the School of Environment building

Discussions were continued over dinner at the Hotel Nikko New Century Beijing, where the group stayed. The dinner also provided a good opportunity to present Dr. Sun with an award

of excellence for her poster session during the society's International Symposium held in Sendai City in last November.



President Dr. Kida presenting Dr. Sun with her award

● 2nd day (Wednesday 13th of March)

A visit was made to the Japan-China Friendship Environmental Conservation Center in the morning. The group was welcomed by ten Chinese waste experts, including Mr. Tsuchiya, Environmental General Advice / Adviser on Circular Economy, and Dr. Hao, Director of the Society for Solid Waste of the Chinese Society for Environment Sciences; who therein discussed and introduced the activities of each country's waste management society. This was the first official visit since the agreement of cooperation was signed with the Chinese Society of Waste Management, and fruitful discussion were held, in both Japanese and Chinese via the Chinese side's interpreter.



PowerPoint presentation on waste management in China

In the afternoon a visit was made to the Environment Sanitation Engineering Technology Research Center. Experts from the center introduced its achievements with a series of panels and after the activities of each side were introduced, Dr. Asari appealed for participation in 3R International. These discussions were interpreted simultaneously by committee member Mr. Long. After questions and answers, further discussions were held over dinner. To save precious time for the next day's visit the group traveled to Tianjin after dinner, arriving at the hotel after 10.30pm.

● 3rd day (Thursday, 14th of March)

The visit to Tianjin was arranged by Mr. Yoshida of Dowa Holdings Co., Ltd., who was part of this tour group. The group departed right after breakfast, as a lot of distance needed to be covered, and was joined by Mr. Suzuki, Branch Manager of Mizuho Corporate Bank, regarding the morning visit to the Sino-Singapore Tianjin Eco-city, and Mr. Watanabe, President General Manager of Tianjin Dowa Green Angel Summit Recycling Co., Ltd., the afternoon's destination.

Sino-Singapore Tianjin Eco-city is an environmentally friendly and innovative urban development from many aspects including waste management and energy. An explanation was given in Japanese using an architectural model, panels and PowerPoint.



Explanation in front of the architectural model

In the afternoon the group visited the appliance recycling center of Tianjin Dowa Green Angel Summit Recycling Co., Ltd., and saw the recycling of cathode-ray tube televisions. After this the companies beginnings through to the present were explained in detail using PowerPoint in Japanese, followed by questions and answers.



Workers quietly disassembling a television

● 4th day (Friday 15th of March)

The flight to Shanghai was early in the morning. Mr. Long made all the arrangements including transportation for the Shanghai visit. Initially, the plan was to visit the Jiangqiao Waste to Energy Plant. However, when Mr. Long contacted them the previous day it was found it would not be operating then, so plans were quickly changed to visit the Pudong Yuqiao Waste to Energy Plant. The explanation of this plant was given by the company that invested in, built and manages this plant, Shanghai Pucheng Thermal Power Energy Co., Ltd.



Entrance to the plant



Under-construction Waste to Energy Plant

In the afternoon a visit was made to the under-construction Shanghai Waste to Energy Plant. After being given an

explanation in a meeting room, the group was shown around the center scheduled to be completed in two months.

After this the Shanghai Laogang Landfill site, said to be the largest in Asia, and the landfill gas power plant were visited. The facilities were explained by Mr. Kearsley-Pratt, General Manager of Veolia Environmental Services who was at the site that day. Veolia Environmental Services jointly set up Shanghai Laogang MSW Treatment Co., Ltd., with Shanghai Environment Co., Ltd., and invested in, built and manages this facility.



The black sheet on the slope at the back of the photo covers a completed landfill section



Visit to the electricity generation facilities

● 5th day (Saturday, 16th of March)

Each of the participants returned to their homes.

I would like to take this opportunity to express my appreciation, as the member in charge of logistics, for this extremely important chance to make our first visit to China, and for those who went out of their way to participate in this trip.

Also, we would like to express our extreme gratitude to all of those who gave up their precious time to support our trip at each of our destinations.

(Shigeko Yamaguchi)

Upcoming Events

KSWM Spring conference 2013

Date: May 9-10, 2013

Venue: Danyang in North Chungcheong, Korea

URL: <http://jsmewm.or.jp/?p=1730>

130th conference of RPSJ

“Break through of technology – rare metal separation and bio technology”

Date: June 20-21, 2013

Venue: Senriyama campus, Kansei Uni., Japan

URL: <http://jsmcwm.or.jp/?p=1726>

Tokai-Hokuriku chapter and factory tour

Date: May 14, 2013

Venue: Tokai city, Japan

URL: <http://jsmcwm.or.jp/tohkai-branch/?p=87>

“Implementation of Organic Waste Management in Southern and Eastern European Countries” - Status, challenges and solutions

Date: April 17-19, 2013

Venue: Sofia, Bulgaria

URL: <http://www.iswa.org/en/75/calendar.html>

ICSWHK 2013 - 2nd International Conference on Solid Waste 2013: Innovation in Technology and Management

Date: May 5-8, 2013

Venue: Hong Kong SAR of China

URL: <http://arcpe.hkbu.edu.hk/conf2013/>

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Low CO₂ and 2R Society

Kazuo Oike

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Paper

A Simplified Pretreatment for the Detection of Asbestos in Waste Gypsum
Mihoko Harada and Morio Hiura

Current Members of JSMCWM as of March 31, 2013	
Regular Members	2,270
Fellow	25
Senior	18
Honorary member	5
Students	199
Public Institutions	86
Supporting companies	117
NPOs	5
Individual	11
Total	2,736

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