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Marine Litter News

From East Asia Civil Forum on Marine Litter

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East Asia Civil Forum on Marine Litter

The East Asia Civil Forum on Marine Litter was established in October 2009 at the Marine Litter Summit in Shimonoseki, Japan. The Forum is composed of NGOs from Japan, South Korea, Thailand and Taiwan. We welcome more participation from other NGOs from east asian countries.

ACTIVITIES

1. AMETEC Training Workshop on Marine Debris for Asian ICC coordinators

By Dr. Yong Chang Jang, researcher in OSEAN

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Recommended Citation:

The AMETEC Training Workshop on Marine Debris for Asian ICC coordinators was held in KIOST, Geoje, South Korea and 10 ICC coordinators from Asian countries participated in the program.



Training workshop on marine debris for Asian country coordinators of International Coastal Cleanups (ICC) by Ocean Conservancy was held in Korea Institute of Ocean and Science Technology (KIOST), Geoje, South Korea from June 11 to 21 and 10 ICC coordinators participated in the program. AMETEC (APEC Marine Environmental Training and Education Center, www.ametec.org) has run a training program for improving ability to conserve marine environment and increasing awareness in Asia Pacific region since 1997. The main themes over the past years have been oil, persistent organic pollutants, and trace metals in the marine environment. Now marine debris is the theme of the program for 3 years from 2013 to 2015. OSEAN gets involved to co-organize, give lectures, and lead discussions.

This workshop consisted of (1) overall understanding the issue of marine debris, (2) developing monitoring protocol of beach debris and practicing it, and (3) awareness program design for marine debris. The participants had the time to introduce the management policies of marine debris and the activities in their countries. The titles of the lectures were as follows.

- 1) Introduction to marine debris and overall AMETEC program

- 2) International trends in coping with marine debris
- 3) Impact of marine debris on wildlife
- 4) Microplastics
- 5) Toxicity of the plastic marine debris
- 6) Transport of marine debris in the oceans
- 7) Marine debris as a vector of indigenous species
- 8) How to design public awareness programs
- 9) Awareness program design – Korean case I
- 10) International lighter project
- 11) Beach litter survey with volunteers
- 12) Marine litter budget model
- 13) Addressing Styrofoam buoy marine debris pollution with stakeholder participation
- 14) Awareness program design - Korean cases II: Impact on marine life (about online fundraising, citizen participation, education materials)
- 15) EPS debris reduction in Kagoshima
- 16) Reviewing protocol for beach debris survey and field application

The key words dealt in the workshop were citizen science, beach survey, awareness, and policies to address marine debris issue. Large-sized marine debris was firstly targeted.

Participants shared their countries' situations through country reports and presentations. They talked about characteristics of marine debris policies and had chances to understand big differences between them although their countries are located closely. They also learned recent scientific progress in marine debris research, reviewed monitoring guideline on beach debris provided by UNEP/IOC in 2009, and discussed improvement of it through experience from field trip. They were introduced to awareness program design, made their own program and shared with each other. They are expected to make a step forward through their own program and share their experiences next year.



Participants discussed marine debris issues actively and shared their opinions throughout the period and from morning to evening. Even after the final ceremony they shared the documentaries they are shown and useful information for organizing ICC more efficiently.

After a few days from the start, one of the participants created a facebook marine debris page and started to share their information. It is probably because they are altogether ICC coordinators and always think over marine debris and have organized activities about marine debris issue.

Asian ICC coordinators have had this job for many years, organized and undertook many activities. But they have never met together before this program. We really thank KIOST for giving this precious time.

Introduction of the lecturers and participants

1. Lecturers from Korea



Dr. Sang Hee Hong is a principal research scientist of Oil and POPs Research Group in KIOST. She is in charge of AMETEC program and made a plan for this workshop. She also gave a lecture titled 'Toxic chemicals associated with marine debris'.



Dr. Won Joon Shim is head of Oil and POPs Research Group in KIOST. He gave a lecture about microplastics in this workshop.



Jongmyoung Lee is general director in OSEAN. He gave lectures titled ‘The Honolulu strategy and emergence of new global marine litter regime’, and ‘Awareness program design – Korean case: EPS project (yearly workshops and research)’.

Dr. Young-Gyu Park is principal research scientist in KIOST and gave a lecture titled ‘Transport of marine debris in the oceans.’



Dr. Yong Chang Jang is a researcher in OSEAN and he lectured on how to design awareness program. He led the discussion for developing beach debris research protocol and field trip.



Sunwook Hong is president of OSEAN and Korean ICC coordinator. She introduced participants to marine debris issue dealt with in AMETEC program and gave lectures titled, ‘Impact of marine debris on wildlife’, ‘A proposal for the beach debris research protocol’,

and ‘Awareness program design – Korean case : Impact of marine debris on marine life’.

2. Lecturers from overseas

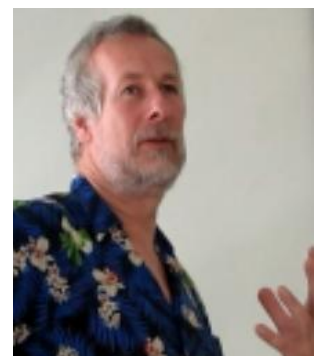


Dr. Shigeru Fujieda is a professor of Kagoshima University, Japan. He gave lectures titled ‘Marine litter budget model’, ‘International lighter project’, and ‘EPS debris reduction in Kagoshima’.



Jongsu Lee is a researcher in OSEAN and she led field trip.

Dr. Martin Thiel is a professor of Universidad Catolica del Norte, Chile. He lectured on marine debris as a vector of non-indigenous species and on volunteer participation in marine debris survey. He also took the chair during discussion for developing beach debris research protocol, and led to agreement.



3. Participants

Most of 10 participants are ICC coordinators in Asian countries.

1		Bangladesh : Mr. S.M. Muntasir Mamun Bangladesh Youth Tourism Foundation	He is famous worldwide for a cross-country bicycle trip to make people know serious plastic debris problem. He always tries to find a better way for sustainable development in developing countries. He publishes magazines as a journalist and creates application for Smartphones as an engineer.
2		Brunei : Mr. Alan Tan Beach Bunch	He is a co-founder of Beach Bunch, an NGO with wind surfers and has worked for a hotel. Brunei produces enormous natural gas and petroleum and imports almost all of the necessities. He focuses on changing consumer's daily life like reducing usage of plastic bags to preserve beautiful ocean in Brunei.
3		China : Mr. Yonglong Liu Shanghai Rendu	He has been Chinese ICC coordinator since 2007 and a marine conservationist. He supports NGOs' establishment in China and corresponds to requests of NGOs. Such supports help him organize ICC, too. He has participated in the international events and is eager to spread the news and ideas to Chinese society.
4		India : Mr. Mukund Lele Indian Maritime Foundation	He has served in navy and been Indian ICC coordinator since 2012. He is a member of the Indian Maritime Foundation, and the National Society for Clean Cities. He takes an active interest in children's education, particularly in spreading awareness of the Ocean, and preserving our ocean resources; and enjoys taking classes for gifted children. He is active in social service in Pune, supporting NGOs in environmental friendly initiatives.
5		Japan : Mr. Majanga Benjamin Dotto Kagoshima University	He is doing his doctorate research in supervision of Pr. Shigeru Fujieda. His master dissertation is about "Marine debris (Expanded Polystyrene) sources and distribution along the coastline of the Kagoshima Bay, Japan". He has attended monthly seminar on marine debris with OSEAN.
6		Philippines : Mr. Gerry P. Reyes Philippine Coast Guard Auxiliary	He has been Philippine ICC coordinator since 1994. The volunteers in ICC have been over 100,000 and have ranked the second in the world. He has involved in the environmental and ecotourism projects, coastal resources management, wildlife preservation and habitat management, scientific studies, dive instructions over 30 years. He wants to share his experiences in AMETEC with the governmental partners in Philippines.
7		Singapore : Mr. N. Sivasothi National University of Singapore	As an ecology lecturer at National University of Singapore, he has organized ICC since 2000. The Singapore cleanup is systematically managed, using internet-based functions. His research concerns about mangroves and others are harmonized with coordinating ICC and he motivates university students to take leadership roles. He wants to greatly improve education methods.
8		Taiwan : Mr. Tai-Di Chang Kuroshio Ocean Education Foundation	He has worked for conserving dolphins and preventing oceanic pollution and organized ICC since 2004. He is one of the founders of TOCA (Taiwan Ocean Cleanup Alliance) and sends articles for the Marine Litter News by East Asia Civil Forum on Marine Litter (ECM). He has contributed to connect China and Taiwan with other countries in terms of marine debris activities.
9		Thailand : Ms. Kanyarat Kosavisutte Green Fins Association	She founded Green Fins Association in Phuket in 2008 and has organized underwater and beach cleanups and continued to raise awareness by educating younger generation. She has an outstanding talent to produce educational materials: "Gift from the Sea: 10-min animated film about marine debris", "The Missing Shoes: crafts made of flip-flop discarded on the beach on the basis of community involvement", etc. She sends articles for ECM.
10		Vietnam : Ms. Trieu Thuy Ha Centre for Marine Life Conservation and Community Development	She works for environmental organization in Vietnam as a communication acting manager. She builds, coordinates, and implements communication strategies and plans for sharing results of projects. She coordinated events relevant to ICC in 2012. Her specialty would greatly contribute to share the ideas, experiences, and knowledge from the AMETEC workshop.

ACTIVITIES

2. Convene Japan-U.S. cooperative investigation and forum regarding tsunami flotsam hosted by JEAN

By Dr. Shigeru Fujieda, Professor of Kagoshima University and board member of JEAN
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Recommended Citation:

Fujieda, Shigeru. (2013) Convene Japan-U.S. cooperative investigation and forum regarding tsunami flotsam hosted by JEAN, *Marine Litter News from East Asia Civil Forum on Marine Litter*, Vol. 4(1): 6

This is a cooperative project by NGOs from the U.S. and Japan conducted through the network formed from the ICC, in preparation for the full-scale of driftage washing ashore on the west coast of the North American continent. In August 2012, a meeting was held in Oregon, U.S. by ICC coordinators from Japan and the U.S. In January 2013, an investigation was conducted on the coast of Hawaii, US, and in February, a citizen forum and another coastal investigation were held in Oregon, US. In March 2013, briefing sessions on this project were held in Tokyo and Sendai. Through the present project, cooperation deepened between ICC coordinators from the U.S. and Japan and Ocean Conservancy. Furthermore, by developing cooperation with domestic NGOs that are engaged in support activities for the earthquake disaster, new connections were established and deepened among the relevant parties and the network has been expanded.

<http://jean.jp/en/>



Tsunami Debris study in O'ahu Island, Hawaii, Jan. 2013



Japan-US Marine Debris Workshop & Cleanup, Oregon, US. Feb. 2013

3. The Society of Wilderness World Ocean Day Participation

La Benida Hui, Curator of World Oceans Day educational show in SOW
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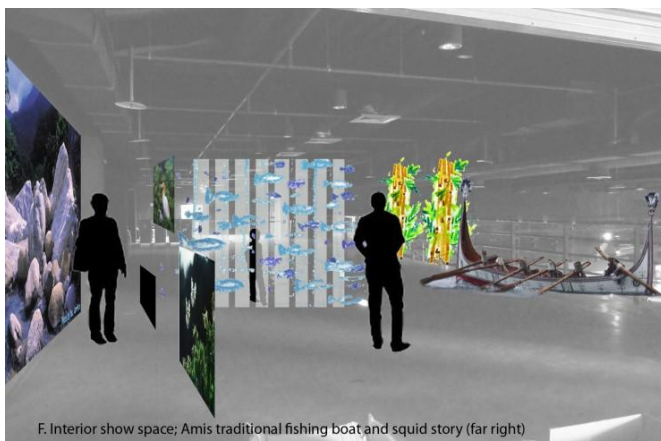
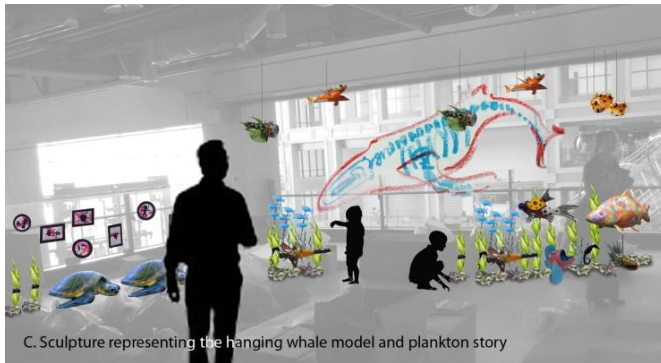
Recommended Citation:

Hui, La Benida. (2013). The Society of Wilderness World Ocean Day participation. *Marine Litter News from East Asia Civil Forum on Marine Litter*, Vol. 4(1): 7

Over 200 volunteers, 10 supporters, 8 professional artists, 4 scientists, 3 schools, 1 curator and 1 NGO have joined forces under one roof to present a World Ocean Day art exhibition and film festival, on June 8th to September, 2013.

Through a combination of workshops, lectures, and lessons the team formulated (with the help of the World Ocean Day Organization model) a traveling educational show, titled: “Love Your Ocean Home: Together We Have the Power to Protect”. This show begins with the story of water, how it travels, and how our human impact affects the wildlife before it reaches the ocean.

Action steps, interactive learning and ocean stories are key aspects presented to encourage a better understanding of the ties that bind us to our environment and the need for Taiwan’s preservation.



ACTIVITIES

4. Ban on Styrofoam cups comes into force in Tainan City, Taiwan

By Jui-kuang Chao, researcher of Environment Division & Yating Tai, leader of the beach monitoring volunteers
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c7720831@ms59.hinet.net, yating.tai@gmail.com

Recommended Citation:

Chao, Jui-kuang, Tai, Yating. (2013). Ban on Styrofoam cups comes into force in Tainan City, Taiwan. *Marine Litter News from East Asia Civil Forum on Marine Litter*, Vol. 4(1): 8-9.

The ban on Styrofoam cups in Tainan City came into force from April, 2013.

Tainan Community University has conducted marine litter monitoring since October, 2005. For the past eight years, disposable beverage container is one of the most commonly found litter on Tainan beach that locates at the southwest part of Taiwan. Based on the data we collected every month since 2005, we urged the government several times to ban the use of Styrofoam cups. In 2007, we started a campaign to ban Styrofoam cups and it was approved by several officials from the government sectors. However, we didn't succeed back then because of the disapprovals of beverage shops owners.

We didn't stop our efforts since then. We exhibited art works made from marine litter and posters introducing marine debris in several local schools. We organized campaigns to encourage people to "Bring Your Own." We promoted taking your own cups to buy beverages. Since then our government also passed an incentive. Consumers can get discounts when they bring their own containers to buy drinks.

We continue our efforts to raise people and government's awareness of disposable food containers. And we proudly announce that Tainan City is the first one in Taiwan to ban the use of Styrofoam cups. The effort of marine litter monitoring for the past 8 years contributes to this success.



Next, we will keep on urging our government to come up with better policies for limiting the use of plastic bags. Also, the materials used to make the bags should be biodegradable and not polluting the air when being burned. Moreover, the recycling incentive of glass beverage bottles should be provided. Management and recycling of fishery Styrofoam still have many aspects we should improve. The above mentioned areas will be our next goals to solve the marine litter problems.

Following is our observation on Tainan beach in 2012:

1. Plastic bags are the top one litter for several months. They are basically from local sources instead of drifting here from other countries.
2. Oyster farming racks and fishery Styrofoam still have a big impact on our coast. Though the amount of Styrofoam is less than the past few years, we still need to work on improvements. Also, oyster farming racks shouldn't be burned right on the beach as a way to dispose them.
3. Disposable beverages containers are the top three litter, including plastic cups, Styrofoam cups, plastic bottles, glass bottles, straws and lids. The straws are also increasing.
4. Plastic particles are commonly found on the beach, also with increasing numbers.

Styrofoam cup is one of the most commonly found litter on Tainan beach



ACTIVITIES

5. The Missing Shoes Year 2, Green Fins Association

By Ms. Kanyarat Kosavisutte, Secretary of Green Fins Association
footprint_architec@yahoo.com

Recommended Citation:

Kosavisutte, Kanyarat. (2013). The Missing Shoes Year 2, Green Fins Association. *Marine Litter News from East Asia Civil Forum on Marine Litter*, Vol. 4(1): 10-12.

This is probably the last report for The Missing Shoe Project. It is the second year we granted with small funding to extend our experiment with the first year to put it into practice with the local people. We approached to reuse the non-recyclable material through small industrial production and handicraft from the local. The idea is to make non-recyclable marine debris worth effort and valuable enough so that people collect and remove from the beach and result in clean ocean. We do not usually see the plastic bottles and aluminum cans lying on the beach. In fact people collect them even before it gets to the ocean. A lot of trash end up in the ocean not because people purposely litter, but because of mismanagement. In the developing country like Thailand, there are people who are willing to earn extra money or make a living by collecting valuable trash. This year I introduce one more material on land that I found easy to collect as the flip-flop lost on the beach, aluminum foil laminated with plastic packaging for snack. I look up about material and it took 400 years to decompose. I thought that aluminum foil packaging could be collect before it ends up on the beach or in the dumpsite. There always will be plenty of material to use.

Since the first year we have our consultant with Professor Natthapong Nithi-Uthai at the University of Songkla Nakarin in Pattani Province that is at the southern part of Thailand to experiment with the flip-flop. This year I want to reuse flip-flop collect on the beach as outdoor playground sheet. A simple design as jigsaw pieces were drawn out of 5 types so that we can extend and put it together to any square and rectangular size to serve any play ground equipment. The iron knife were shaped into 5 typical jigsaw designs and sent directly to Pattani. The process was removed parts of flip-flop, sorted the color and shredded with the shredder machine into small pieces. Then he put polyurethane as bonding agent, mixed them and put into a simple rectangle mold, pressed hard and heavy with the hydraulic press machine.

At the beginning of the project, I had planned the whole process of clean up the beach on ICC day, collecting data, introduce the selected local people with the various workshops on Marine Debris issue such as making art and using local craftsmanship to produce souvenir and useful things from trash for inspiration. I selected strong Muslim community where they are closely tight together with various activities such as Water Buffalos Conservation to grow rice with water buffalos not machine, Sank-Yoth Rice Plantation, Coffee Conservation, Pandanus Weaving Group, and Organic Vegetable Farming. I was interesting especially for pandanus weaving because I think the older generation can pass on their method to the young generation with the new material, used aluminum foil packaging. In the end not quite the same method was applied, a difference method but the same look and outcome. I chose this community also because their village is so clean; I think that is important to start.

Not even halfway through 6 workshops, they all died out as they lost interested in the whole Marine Debris issue I introduced them. I moved back to where I live in Phuket that is easier as I don't have to travel long distance to work with the new group named Natural Resources and Environment Village Volunteer. All of them similar to the previous group are household Muslim wives have their own jobs and are closely tight together. They have their skills to





produce the gadget things as sample I provided them. But they have no time to really keep on producing them further.

The last group I worked with was the Garbage Saving Bank & Recycle Waste Transformation Center because I was hoping that I could solve my problem. I have spent most of my budget already and still I have no community who can supply goods if I were the investor to open this green market. I am willing to explore any opportunity it comes. I chose them because they were success in collecting the household garbage and exchange for the money and the member grew dramatically at the dense government housing community in the heart of Bangkok City. They have been working with various women group such as women who in need for the job in prison. I continue and keep contact with this group so that they can teach some community who want to earn money.

January 30th, 2013 worked with Garbage Saving Bank & Recycle Waste Transformation Center, Bangkok. I introduced a few people to make bags from used aluminum foil packaging because the material is more suitable for them as they are in Bangkok. The material can be collected easily anywhere from any community such as school or housing. They still have to make at least one sample for me in exchange with the knowledge I gave them.

November 22nd, 2012 worked with Natural Resources and Environment Village Volunteer in Phuket. They have been working with the milk-carton; plastic strapped and weaved them

into basket so on. It was not difficult or spent too much time working with them using aluminum foil packaging. During this two days workshop with them, I want to practice garbage management so they can use in their everyday life and what is the point of this whole workshop if we don't reduce-reuse and recycle. I stressed with them to use all reuse material for lunch and coffee break. They did not pay attention, they were not concern and they do not care. At the end I can only as them to separate garbage. They still have not completed the assignment I gave them to submit one sample per group. I followed them to the Open Beach Festival which one group sold the bag they made with me.

November 21st, 2012 worked with Natural Resources and Environment Village Volunteer in Phuket. I told them how I came about to practice garbage management and try to make a living out of it. I showed them the sample of bag I made, 100% from flip-flop and many more idea can be done. I taught them to made beads from flip-flop I collected. I taught them to string the beads using wires and tie them together in line to create anything. I wait to collect sample from them in exchange with the equipment I gave them to work with. I will also finish my sample, which is a basket.



ACTIVITIES

November 17th, 2012 I was invited to make an exhibition on behalf on Green Fins Association at the Butterfly Release Year 6, a green charity at Khao Prataew Wildlife Restriction Area in Phuket. The green activities such as release butterfly and fish, plant local palm tree, recycle model contest, photo contest subject on My Green Phuket and charity fair drew a lot of attention from the public and the media. My exhibition was on Marine Debris, The Missing Shoes Project, garbage management at home and souvenir for sale on this issue. I have sample of bags made from used aluminum packaging and flip-flop beads displayed which students and teachers were interested. The collection of my treasure were sorted and displayed in the glass jar. The children really like it since they have never seen such garbage in this point of view.

October 14th, 2012 Art from trash workshop was conducted by Visa Surachart, with the Children and Youth Council at Tung Talay Rehabilitation and Wildlife Conservation by King Initiative, Krabi. The detail was stated in my previous report and this was the last workshop with the group prior to my relocation back to work on this project in Phuket.

September 30th, 2012 Professor Nattapong Nithi-Uthai conducted a simple method on Flip-flop transformation with the Children and Youth Council at Tung Talay Rehabilitation and Wildlife Conservation by King Initiative Krabi. At this workshop we discussed about the outcome of the data we collected. I have asked the one that noted down the counted number of trash to describe to their friends without the data and later with the data. I hope they pay attention enough to understand and have a clearer picture the important of collecting data. From all my experience this has become annoying by volunteer, as they just want to clean up the beach and go.

September 16th, 2012 International Coastal Cleanup Day with the Children and Youth Council at Tung Talay Rehabilitation and Wildlife Conservation by King Initiative, Krabi. The outcome was reported on my previous writing.

The budget is finished and still I have not be able to establish any community to work with me. I can spend all my time keep designing and make sample of things I want to make. I am hoping that someone will see what I do, and want to do what I strongly believe that it will work, at least environmentally wise. The whole green

business and marketing seems difficult and against the wave. In my evaluation for The Missing Shoes project, I may be interested in the issue so I want the other to think the same and want to do the same. The activities were not attractive enough for the local to become interested and doing it. Thailand maybe too far in developing as a country or southern part of Thailand where the land connect to the shorelines are interested in tourism business more than spend time collecting garbage, clean up the ocean and producing useful things from trash. Or my last conclusion is that they are sufficient living. This project will still be on for me. I will try to make the flip-flop beads with the hydraulic pressing machine like jigsaw sheet instead of hand-hammer every beads to save time. The fun part is when you have small piece ready and you just work on the subject with your imagination and creativity. I will continue to do what I believe in, practice in garbage management, and make a living out of it.

[*http://earth911.com/recycling/metal/aluminum-foil/facts-about-aluminum-foil/](http://earth911.com/recycling/metal/aluminum-foil/facts-about-aluminum-foil/)



6. Report of 2012 Cleanup Campaign & ICC in Japan

By Dr. Shigeru Fujieda, Professor of Kagoshima University and board member of JEAN
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Recommended Citation:

Fujieda, Shigeru. (2013). Report of 2012 Cleanup Campaign & International Coastal Cleanup in Japan. *Marine Litter News from East Asia Civil Forum on Marine Litter*, Vol. 4(1): 13.

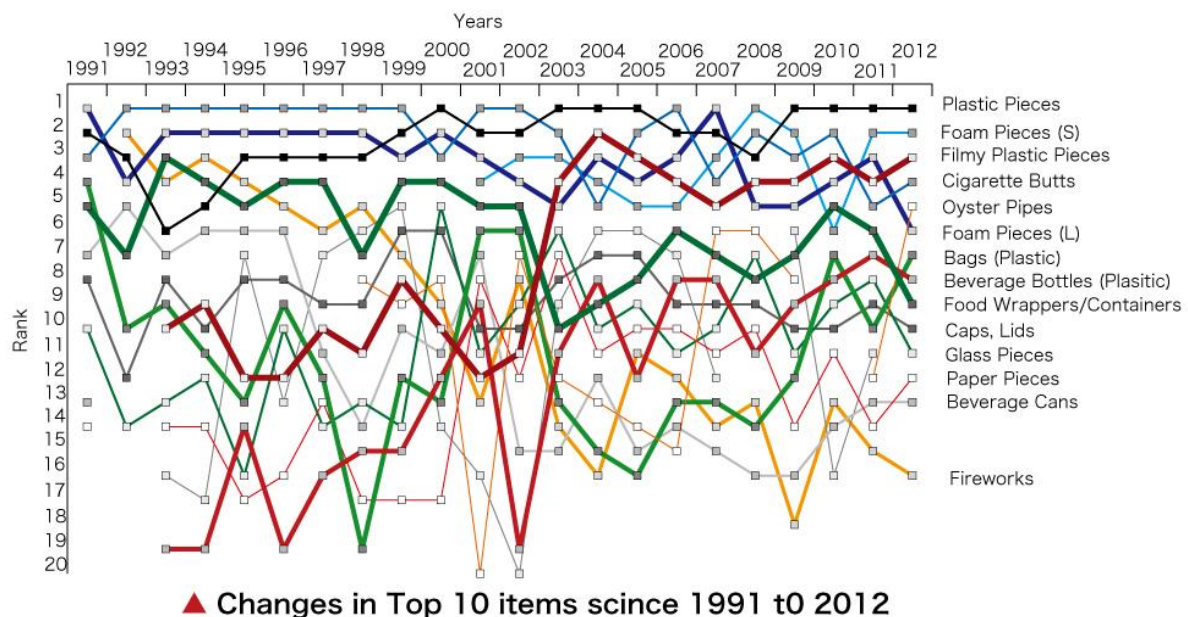
In the 2012 Cleanup Campaign, a total of 26,495 people participated from Hokkaido in the north to Okinawa in the south, and 35 tons of litter was collected from 119 km of coast, riverbank, lakeshore, and underwater. We would like to express our gratitude to all of the participants who put time and effort to help removing litters.

In the autumn 2012 International Coastal Cleanup (ICC), 9,029 people participated. A total of 347,780 pieces of litter was picked up carefully one-by-one from 57 km of water shore (coast, riverbank, and lakeshore), underwater and inland areas. A summary of the overall results is presented here.

Incidence of the top 10 items no major changes found for over 22 years. Top items are shifted from cigarettes/filters (1990s) to rigid plastic pieces (2000s). Items rising in rank over 22 years are fragments of plastic sheets and bags and plastic beverage bottles. Items dropping in rank over 22 years are beverage cans and fireworks. Food wrappers/containers have increased again since-

2000. In 2012, "Fragments" were accounted for over half (52.1%). The progression of marine litter being fragmented has become serious. They are fragmented from the impact of waves or deteriorated from ultraviolet rays while drifting in the ocean over a long period. Therefore, it is a matter of great urgency to collect the objects from the ocean before they become fragmented. The coast is a filter for the ocean, and with each wave, the ocean carries litter to the shore, and again takes them away scattering over a wide area. Since we are the only beings on earth that create things that will become litter, as we use and discard them, we have an obligation at least to always keep the coasts, which are the ocean's filter, clean for compensation. To recover and maintain the beautiful ocean, we need to continue cleanup efforts by everyone.

Please download the pdf files (English version) from the following website. <http://jean.jp/en/>



ACTIVITIES

7. Annual forum on marine debris held in February 2013 in South Korea

By Dr. Yong Chang Jang, researcher in OSEAN
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Recommended Citation:

Jang, Yong Chang. (2013). Annual forum on marine debris held in February 2013 in South Korea, *Marine Litter News from East Asia Civil Forum on Marine Litter*, Vol. 4(1): 14.

Annual forum on marine debris organized by OSEAN was held in February 2013 in Tongyeong City, South Korea. About 40 people participated to listen to the presentation on the recent studies and education cases on marine debris in Korea. Here, the proceeding is summarized.

1. National Marine Debris R&D Project Planning

Dr. Won Joon Shim at KIOST (Korea Institute of Ocean Science and Technology) gave a presentation on National Marine Debris R&D Planning with support of the Korean government. He is preparing the draft plan and introduced the main contents. He emphasized policy and R&D should be coordinated.

2. Cases of Marine Debris Education

Cases of Marine Debris Education were shown by Mr. Jong Ho Lee, a teacher at Choongmoo Elementary School in Tongyeong City, and by Tae Hee Kim, an environmental guide trained by Young Nam Sea Grant.

Mr. Jong Ho Lee has invented many creative methods of education for his classroom. He showed an example: Collecting EPS ball with chopstick. As the EPS breaks down to small pieces, collecting them becomes much more difficult. The students learn that preventing marine debris before they enter the ocean is much easier way than collecting afterwards.

Ms. Tae Hee Kim told that she did the marine debris education more than 200 times during the year 2012. She, who works as an independent environmental instructor in Busan area, raised awareness of the students who visited her to learn about the marine environment.

3. Double-entry accounting system for understanding the marine debris flow and stock



Mr. Jong Ho Lee is showing his experiment on how difficult to collect EPS grains once those were broken down.

I gave a presentation on "Double-entry accounting system for understanding the marine debris flow and stock," which I have been researching recent year. By comparing the flow (how much debris enter the ocean during a period) and the stock (how much debris exist in the ocean at a certain moment), we can check the reliability of the estimation of the marine debris amount. This method will be used in preparing "Second National Basic Plan to Manage Marine Debris" of South Korea.

4. River Basin Management of Marine Debris

As the marine debris comes from the river, preventing it from the river basin will be much more efficient. Ms. Sunwook Hong, President of OSEAN gave a presentation on "How to do River Basin Management of Marine Debris." She emphasized that establishing networks of government, citizens, and other stakeholders is important for successful management of marine debris at river basins.

Dr. Jin Ho Park at Kyungnam Development Institute, Dr. Dong Joo Kim at Jeonnam Development Institute, and Ms. Tae Hee Kim at Korea Zero Waste Movement Network participated in panel discussion.

ACTIVITIES

8. 2013 International forum for the watershed management of marine litter

By Dr. Yong Chang Jang, researcher in OSEAN
yongchangjang@hotmail.com

Recommended Citation:

Jang, Yong Chang. (2013) 2013 International forum for the watershed management of marine litter, *Marine Litter News from East Asia Civil Forum on Marine Litter*, Vol. 4(1): 15



2013 International forum for the watershed management of marine litter was held in Geoje on the 15th of May, 2013. It was hosted by Youngnam Sea Grant and organized by OSEAN and supported by Ministry of Marine Affairs and Fisheries, Gyeongnam Province, Geoje City, and Korean Maritime Institute. About 40 people participated in the forum and there were researchers, NGOs, civil servants, and journalists among them. All of the participants actively asked questions, answered each other and shared their ideas. They also participated in developing watershed management policies. Here is the time schedule of the forum.

Contents and Presenters

Time	Contents
May 15, 2013	
09:00-09:30	Registration
09:30-10:00	Opening ceremony Introduction of participants Purpose of the forum(Sunwook Hong, OSEAN)
10:00-12:00	Session 1. Introduction to watershed management in Korea and other countries. - Management program of Hozu River in Japan (Harada Sadao, Osaka University Commerce of Japan) - Coping with marine debris of Mogami River, in Yamagata Prefecture, Japan (Kaneko Hiroshi, president of JEAN) - Marine debris management in Masan Harbor (Bokyoung Lee, Korea Federation for Environmental Movement)
12:00-13:30	Lunch
13:30-14:45	Session 2. Evaluation of watershed management policy - Cleanup of watershed litter (Dae Hyun Park, Ministry of Environment) - Developing watershed management policy in Nakdong River (Jinho Park, Gyeongnam Development Institute)
14:45- 15:00	Recess
15:00-17:30	Session 3. Workshop on river and watershed management policy of litter - Plan of workshop and introduction to IPA (Importance Performance Analysis) (Jongmyeong Lee, OSEAN) - Drawing ideas for watershed management policy (all participants) -Evaluation of the ideas(all participants)
17:30-18:00	Conclusions
18:00-20:00	Dinner
May 16, 2013	
10:00-14:00	Field trip to Masan Bay

9. English version of marine litter activity book ‘Listen to the Voice of the Ocean’ issued

by Jongsu Lee, researcher in OSEAN
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Recommended Citation:

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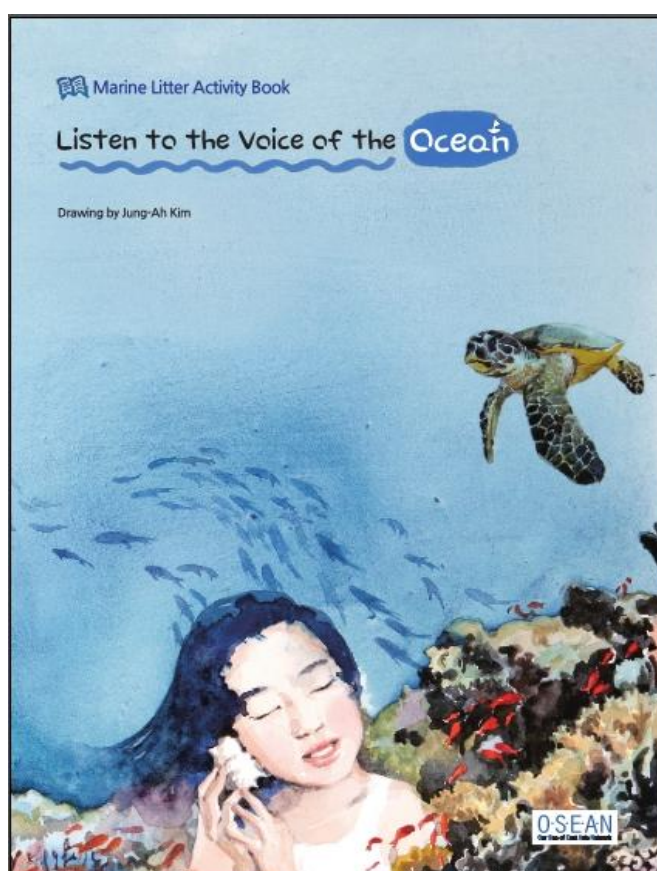
A beautiful activity book ‘Listen to the voice of the ocean’ which was made by artist Jung-Ah Kim was translated into English! Now it can be used by children all over the world. The activity book was issued on Dec. 2012 in Korean, widely distributed to children, OSEAN member and neighbors, and used in various ways. It was originally made for elementary school students and it vividly shows the marine animals which are suffering from marine debris. Children will enjoy this activity book by drawing some pictures and making models. On releasing the book, many people from different countries have requested the English version. We hope that children all over the world are aware of seriousness of marine debris problem and think the way to decrease them.

The activity book was made possible thanks to thousands of Internet users throughout South Korea, who asked Naver Happybean Foundation to donate its money for the fundraising project, ‘Marine mammals which are dying from marine litter. What on earth did we do?’ and OSEAN members, who contributed to this project.

We really appreciate all of their supports.

To download

[http://oseannet.cafe24.com/2013/Marine%20litter%20activity%20book%20in%20English-low%20res\(OSEAN\).pdf](http://oseannet.cafe24.com/2013/Marine%20litter%20activity%20book%20in%20English-low%20res(OSEAN).pdf)



Upcoming events

*International Coastal Cleanup, 3rd Saturday, Sep. 2013 in Japan, Korea, Taiwan, and Thailand

*Annual Marine Litter Summit organized by JEAN, Oct. 2013. Contact: cleanup@jean.jp

*2013 NOWPAP International Coastal Cleanup and Workshop on Marine Litter Management, Oct. 24-26, Okinawa, Japan. Contact: webmaster@nowpap.org



What is East Asia Civil Forum on Marine Litter?

East Asia Civil Forum on Marine Litter is a network established in 2009, made of NGO groups dedicated to protection of marine environment from marine litter in east Asia countries.

Network member groups are:

- Japan: Japan Environmental Action Network (JEAN)
- South Korea: Our Sea of East Asia Network (OSEAN)
- Thailand: Green Fins Association (GFA)
- Taiwan: Taiwan Ocean Cleanup Alliance (TOCA)

To the readers,

East Asian countries are connected to each other environmentally, geographically, historically, or culturally through shared regional seas. The East Asian region is one of the most dynamic economic centers with some of the busiest shipping lanes in the world. With the spread of mass production and consumption over the last decades came the huge increase in solid waste generation. There are, however, not enough waste treatment facilities and management measures, which makes the region vulnerable to marine debris pollution.

Entering the seas in large amounts, floating debris has become a source of concerns and conflicts among some neighboring countries. This transboundary environmental problem requires concerted efforts of all the relevant stakeholders beyond sectoral and political boundaries. In this regard, OSEAN (Our Sea of East Asia Network) and JEAN (Japan Environmental Action Network), the marine debris NGOs in Korea and Japan, have shared a vision in which people in the East Asia could act together as one community in protecting our precious marine ecosystems. We believe that NGOs in the East Asian countries have an important role in sharing experiences and acting together to address the marine debris issue in the region from the bottom up.

The city governments of Shimonoseki and Nagato, and JEAN co-organized ‘2009 Marine Litter Summit - Shimonoseki•Nagato Meeting’ on October 16-18, 2009, in Shimonoseki, Japan. OSEAN suggested in the meeting to start

an ‘East Asian Civil Forum on Marine Litter’ through which relevant NGOs and organizations in the East Asia could share experiences and information and work together on the marine debris problems. OSEAN and JEAN have reached a consensus to launch the forum and publish biannual newsletters. So we have launched the East Asian Civil Forum on Marine Litter and we are delivering marine debris news from member countries via e-mail to people who are concerned with this problem on local, national, and regional levels. In late 2012 now, we have four members above. We hope that the forum could provide a venue for all of us to share our vision, experiences, and creative actions.

This is the first effort to link the East Asian people beyond geographical and language barriers to a common goal of protecting our seas from marine debris pollution. NGOs and organizations that have interests and passion to make our seas clean and healthy are more than welcome to join us. For more information, you can contact us at loveseakorea@empas.com. Please let us know if you have any problem in receiving the newsletter. These articles are also available online at <http://cafe.naver.com/osean>.

Secretariat,

Sunwook Hong (OSEAN) and Kojima Azusa (JEAN)

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