

INTERNATIONAL CENTER FOR ENVIRONMENTAL TECHNOLOGY TRANSFER

ICETT

NEWSLETTER

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For the Earth
For the future of the Earth



Purpose of establishment

The International Center for Environmental Technology Transfer (abbreviated name: ICETT) was established through industry-government-university cooperation with the aim to transfer technologies related to environmental conservation of Japan and other countries to other regions, and to improve environmental problems on a global scale.

ICETT aims for the preservation of the global environment and sustainable development of the world economy by implementing various types of projects according to the characteristics of other countries, and by promoting smooth technology transfer.

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Tianjin Environmental Exchange Project

Outline

Yokkaichi City and Tianjin City, People's Republic of China, have continued exchanges in various fields since their friendship city agreement in 1980. As part of their exchanges, ICETT has provided training entrusted by Yokkaichi City, aiming to improve environmental problems in Tianjin City, since 1993. Since then, 130 people have taken training provided in Yokkaichi City, while 917 people participated in seminars held in Tianjin City. In fiscal 2018, under the theme "wastewater treatment in an industrial park," a seminar was held in Tianjin City, and training was provided in Yokkaichi City.

Background and purpose

In Tianjin City, while the city achieved remarkable economic development, improvement of its many environmental problems has become an urgent issue. To this end, for this project, which was held for the improvement of the environment of Tianjin City, officers of the Tianjin Environmental Protection Bureau and other relevant persons gained understanding of Japan's environmental technologies and management method.

Contents

1) Seminar in Tianjin City

For two days on October 16 and 17, 2018, we held a seminar in Tianjin City, attended by 119 people, including representatives from the Tianjin Environmental Protection Bureau and researchers. Specialists from Tianjin City made presentations concerning the current conditions of Tianjin City's water environments, and specialists from the Japanese side made presentations on "Japanese laws related to water pollution and related management mechanisms," "Method of removing heavy metals from wastewater and matters to be noted when operating and controlling wastewater treatment facilities," and "Technology to remove organic and toxic pollutants using a physico-chemical treatment method." In the final session of the second day, an open discussion regarding wastewater treatment in industrial parks was held.



Environmental Conservation Seminar

2) Training in Japan

The 14-day training provided in Japan from November 4, 2018 to November 17, 2018 was attended by six persons, including officials from the Tianjin Environmental Protection Bureau. After learning about current efforts in environmental administration from officials of the Yokkaichi City Government, training participants also learned about legal systems and technologies regarding water pollution prevention in Japan. They also visited companies and public institutions and learned about environmental education, corporate responsibilities, and information disclosure, in addition to water quality conservation technology.

Furthermore, training participants visited Kyoto



Training in Japan

City in addition to Kobe City, a city that signed a friendship city agreement with Tianjin City, and learned about the features of environmental administration of both cities, advanced wastewater treatment technology and analytical instruments.

Achievements and prospects

From the participants in the seminar in Tianjin City and the training in Japan, comments as stated below were provided:

【Seminar in Tianjin】

■ In a comparison of both countries' National Effluent Standards, a detailed explanation of disposal methods of heavy metal wastewater was given. Introduced measures for each problem also served as a shining example.

■ As a person in charge of an industrial park construction project, I was able to obtain clues about the construction, management, and operation of a sewage treatment plant in an industrial park.

■ Although the situation varies depending on the country and region, with some common parts, I felt that countries and regions should mutually learn from their examples. I believe that Tianjin City's water quality management will become more scientific and modernized through interactions between Japan and China.

【Training in Japan】

■ Japanese governments and companies put an emphasis on environmental education and information disclosure, and can raise the environmental consciousness of younger generations. In China, environmental problems tend to be coped with after their occurrence because of its priority on economic development. I learned that it is vital to foster environmental awareness in order to solve these environmental problems.

■ Companies, to which we took a study tour, have recognized their responsibilities toward the environment, have voluntarily set strict standards, and have disclosed related information. Chinese companies still fall behind in the aspect of environmental awareness, but will be able to use efforts of Japanese companies as a great reference.

In 2018, the former Environmental Protection Bureau of China's Central Government and the Environmental Management Sections of other ministries and agencies were unified and upgraded to the Ministry of Ecology and Environment of the People's Republic of China (MEE). As shown by this fact, China as a whole has put an emphasis on environmental improvement, and expectations for this project have been increasingly raised. Also, taking themes in line with Tianjin City's problems in the future, we will aim to engage in a project that can help to improve Tianjin City's environment.

Japan-Asia Youth Exchange Program in Science (Sakura Science Plan)

Outline

We held an exchange program with 10 high school students and an attendant from the Republic of Palau for nine days from November 28 to December 6, 2018

Contents

Since the State of Koror, where Palau High School is located, has a concentration of more than half the population of Palau, and a serious waste problem due to an increase in the number of tourists with its many tourist attractions, environmental conservation against the backdrop of this country's waste management problem was selected as the theme of this program. Palau High School has integrated many scientific elements in its curriculum based on a policy of the country's Ministry of Education. All the participants who belong to the science club of this school have an interest in science and technology in various fields, and have a strong concern about waste reduction as well. In the program, they learned about various cases of science and technology related efforts being made in Japan from the perspective of environmental conservation.



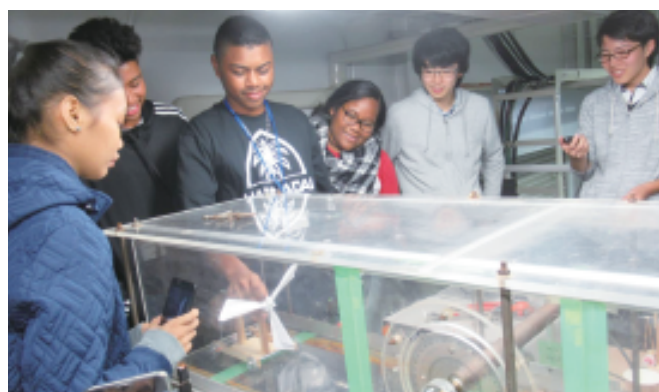
Opening of the program at ICETT

At the Yokkaichi Pollution and Environmental Museum for Future Awareness, participants learned about the history of life in Japan, circumstances of the occurrence of and damage by pollution, and measures to improve the environment, and they learned that current Japan was created after great suffering and grievous experiences.

In interaction with Mie University, participants engaged in experience-type study on the mechanism of wind power generation. Supported by professors and graduate students there, they experienced strong wind generated by large wind tunnel experimental equipment, and operated a small wooden vehicle body with a handmade paper windmill attached to it in a small wind tunnel in an intergroup race. They observed motions based on wind power energy, and learned that the state of rotation is changed through subtle adjustments of the shape and size of the wings.

During their visit to an enterprise, participants were able to learn about the possibility of waste disposal, experiencing Japanese technologies developed in recent years, such as recycling technologies for glass and plastic.

In Tokyo, they visited the National Museum of Emerging Science and Innovation, and enjoyably experienced science and technologies while interacting with various exhibits. To



Practice and experiment on wind power generation together with Graduate school students

conclude the Program, they visited the Embassy of the Republic of Palau in Tokyo, and each of them made a presentation on what they learned in Japan, and their impression of Japan. Participants talked about Japan being very clean and properly recycling resources, as well as the possibility of technological development in Japan.

During their stay, participants interacted with Japanese graduate students, high school students and local residents in various ways. In particular, in the interactions with Mie Prefectural Kawagoe High School, after respective introductions of their own countries and high schools, participants from Palau performed a traditional dance that they devised themselves, and with Kawagoe High School students joining in dancing, the performance came really alive. They also experienced high school life in Japan, so rich in contents, participating in a math class by solving questions and cleaning the classroom together with students. Also, they were able to experience daily living in Japan and Japanese culture by visiting a local volunteer's home and experiencing a tea ceremony.

Achievements

After returning to Palau, participants held a debriefing session for the Science Club members. Through this program, they seemed to have been able to deeply learn about environmental conservation while reaffirming the current condition and ideal state of waste management in Palau. They felt that they were able to participate in a valuable program provided as a limited opportunity, hoping that they would like other fellow members to learn many things in Japan.

Taking this opportunity, we would like to express our appreciation that this program has become a fruitful one which could lead to Palau's future, thanks to a support by the Japan Science and Technology Agency (JST), and to many persons concerned in Mie Prefecture, including the Mie Prefectural Government and Yokkaichi City Government, for their cooperation.

FY 2018 “Regional Core Companies Creation and Support Project” ((Network-type) Chubu Region Environmental Industry Promotion Project)

Outline

We implemented this project with the aim of strengthening the establishment of a network of approximately 50 promising companies, and of fostering core companies and creating new candidate core companies based on the provision of research societies, seminars, and opportunities for business matching both in Japan and overseas from industry-academia-government-private sector collaboration in order to promote “Support for Market Cultivation Both in Japan and Overseas Utilizing Environmental Technologies” and “Support for Sophistication in Environmental Technologies” for company groups in the environmental industry in the Chubu Region.

Period : June 13, 2018 ~ March 15, 2019

Background and purpose

In the Chubu region, a concentration of both manufacturing industries, including automobile and aircraft manufacturers (arterial industry), and company groups with advanced environmental technologies (venous industry) has become the region's strength. Since fiscal 2012, based on the Chubu Bureau of Economy, Trade and Industry's Survey on pollution prevention measures of small- and medium-sized enterprises, “Survey on Regional Development & Overseas Expansion of Environmental Businesses Using Industrial Pollution Prevention Technologies in the Chubu Region,” we have identified that there are approximately 400 companies working in the environmental business field in the Chubu Region.

With this background, this project was implemented aiming to strengthen the establishment of a network of approximately 50 promising core companies, and to foster them as well as to create new ones based on the provision of research societies, seminars, and opportunities for business matching both in Japan and overseas from industry-academia-government-private sector collaboration in order to promote “Support for Market Cultivation Both in Japan and Overseas Utilizing Environmental Technologies” and “Support for Sophistication in Environmental Technologies.”

Contents

1) Implemented open innovation matching with large companies

Aiming at collaboration with large companies for the business development of the core companies in the environmental industry, we held the business matching events “Transmission of Technical Needs” and “Interviews with Companies with Technical Seeds,” with Osaka Gas Co., Ltd.

2) Implemented a corporate exchange meeting with other institutions in the Chubu region

We held an exchange meeting with company groups in the environmental industry organized by the Nagoya Chamber of Commerce and Industry, Toyota City Government, and the Chubu Bureau of Economy, Trade and Industry. Through introduction of the technical seeds of each company, we supported the promotion of business collaboration among companies in the region.

3) Support for the core companies' business development in the Kingdom of Thailand

Since the Kingdom of Thailand, where environmental problems have become actualized with remarkable industrial development, is promising as a target country for the business development of companies in the environmental industry, we held a workshop for business development domestically, and then held a seminar to introduce technologies of the core companies and business matching session in Bangkok, Thailand.



4) Support for the core companies' business development in the Socialist Republic of Vietnam

We have dispatched missions to Vietnam three times since fiscal 2014, have provided technical support for measures to eliminate odors from a fishmeal processing factory in Bà Rịa-Vũng Tàu Province since fiscal 2016, and have invited leaders of provincial and local governments in fiscal 2017. In fiscal 2018 we visited Vietnam twice for policy dialogues, and conducted a training and study tour in Nagoya City for the province's administrative officials in charge of the environment.



5) Held a meeting to exchange opinions on CFRP recycling

We held a meeting to exchange opinions on Carbon Fiber-Reinforced Plastic (CFRP) material recycling for the second consecutive year in order to discuss measures to strengthen cooperation among relevant parties on tasks intended to promote recycling of CFRP materials.

6) Held a resource recycling-type business development seminar

As part of a measure to support businesses related to arterial and venous industries, we held the CFRP Recycling Seminar twice and the Solar Panel Recycling Seminar in fiscal 2018.



Achievements and prospects

To these seminars and events many targeted companies have participated, therefore, it is expected that the approaches of this project play a part in cooperation among industries and academic institutions. On the other hand, in our support for overseas countries, as some business contract negotiations have begun, we have been able to maintain favorable relationships with overseas administrative bodies.

We will continue to make an effort so that we can provide support for the core companies in the region for expanding sales channels both in Japan and overseas, and to promote finding and establishing technical cooperation partners.

Chubu Bureau of Economy, Trade and Industry

FY 2018 “Project to Create and Support Core Regional Enterprises”
(Support for market development of innovative Carbon Fiber Reinforced Plastics (CFRP) In-plant waste recycling technology both in Japan and overseas (hands-on type))

Outline

We implemented this project with the aim of providing support through industry-university-government cooperation for companies in the Chubu Region with excellent Carbon Fiber Reinforced Plastics (hereinafter “CFRP”) in-plant waste (this means manufacturing process in-plant waste) recycling technologies that we recognize as regional core companies in order to promote their sales channel expansion both in Japan and overseas and to find and establish their technical collaboration partners.

Period : October 30, 2018 ~ March 29, 2019

Background and purpose

In the Chubu region, a concentration of both manufacturers, including automobile and aircraft manufacturers (arterial industry), and company groups with advanced environmental technologies (venous industry) has created synergy based on cooperation between arterial and venous industries, which has become the region’s strength. Regarding CFRP in particular, high demand is expected also in the future, focusing on automobile- and aircraft-related fields.

However, as final landfill disposal is generally selected as the current disposal method for CFRP in-plant waste and waste products, which are mainly generated from manufacturing processes with a high impact on the environment, a proper disposal method has not been selected.

Based on the background above, we implemented this project with the aim to provide support through industry-university-government cooperation for the identified regional core companies in the Chubu Region, with excellent CFRP in-plant waste recycling technologies that can meet a wide range of needs from developed countries including Europe and U.S., in order for them to promote their sales channel expansion in both Japan and overseas and find and establish their technical collaboration partners.



JEC World 2019 Exhibition in Paris ①

Contents

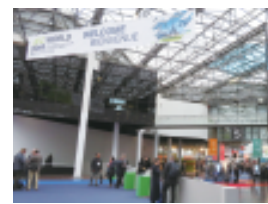
1) Promotion on CFRP in-plant waste recycling technologies, using the opportunity of the “Japan International Aerospace Exhibition 2018 Tokyo”

We visited exhibiting aircraft-related companies from Europe. Through an explanation of the outline of regional core companies, CFRP in-plant waste recycling technologies by this project’s coordinator to persons in charge of the Electric-powered Aircraft Project etc., we promoted the technologies and exchanged information.

2) Promotion on CFRP in-plant waste recycling technologies directed at exhibiting companies, and exchange of opinions toward cultivating a new market with persons related to aircraft manufacturers in Europe, using the opportunity of the “JEC World 2019 Exhibition in Paris”

In March, focusing on sales channel expansion, we exchanged opinions with diverse European companies and institutions on such occasions as the “JEC World 2019 Exhibition in Paris,” aiming for matching between them and regional core companies.

Also, we visited facilities of public research institutions and leading aircraft-related companies in Europe. Under the project’s coordinator’s support, we promoted the regional core companies’ technologies, made presentations on business proposals, and exchanged opinions.



JEC World 2019 Exhibition in Paris ②

3) Collaboration with the Global Network Council Japan

Through participation in the Global Network Council Japan and the Overseas Development Support Network Establishment Conference, we collected information on important points for technology transfer from experts.

Independent project

Project to Respond to Taiwan Delegation to Japan

Outline

In October 2018, a Taiwanese delegation named Circular Economy Exchange Delegation to Japan led by the Industrial Development Bureau, the Ministry of Economic Affairs of Taiwan, visited Japan. On the occasion we coordinated some study tours for them and held an environmental business exchange meeting with Japanese companies.

Background and purpose

Taiwanese industrial groups involved in industrial waste and resource recycling have visited Japan relatively frequently for study tours on the occasions of international exhibitions of waste disposal and recycling held in Japan.

In relation to the fact that we have accepted another Delegation members in the past, we introduced some Japanese companies in the Chubu region, and coordinated a study tour this time upon request by the Delegation team. Also, we held an environmental business exchange meeting with related companies in Japan with the aim to promote cooperation in resource recycling businesses.



Participants from both the Japanese and Taiwan sides

Outline of the environmental business exchange meeting

Date : 10:00 ~ 13:00, October 26, 2018

Venue : Training room and cafeteria of ICETT

Members : Taiwan side: A total of 16 participants, including the Permanent Development Team of the Industrial Development Bureau, the Ministry of Economic Affairs of Taiwan, and entrusting groups, as well as 10 companies related to the manufacturing of semi-conductors, industrial waste and recycling

Japanese side: A total of 13 participants from eight companies mainly in the Chubu Region

Contents : Speech and keynote lecture “Current Situation and Prospects related to Cyclical Use of Waste Resources in Taiwan” by the Taiwan side delegation leader, self-introduction of participants from each company, group interviews, and networking lunch.

Achievements and prospects

Taiwanese companies actively collected information toward collaboration with Japanese companies. The Japanese company side also engaged in active interactions in order to understand the current trends in Taiwan.

Although individual interviews were held in a short period of time, this project was evaluated as very significant by participating Japanese companies, especially this time because of the direct connections formed with government officials on the Taiwan side in an at-home atmosphere.

We, ICETT will continue to steadily provide support for companies also in the future, while valuing connections between individuals.



Keynote lecture by the delegation leader

Independent project

FY 2018 Environmental Subcommittee Seminar of the Mie Prefectural Enterprise International Expansion Promotion Council

Outline

In March 2016, the Environmental Subcommittee was established with ICETT serving as its Secretariat at the Planning and Management Committee of the Mie Prefectural Enterprise International Development Promotion Council. This fiscal year, we held a seminar as the third Environmental Subcommittee.

Background and purpose

To promote the international expansion of enterprises in Mie Prefecture, the "Mie Prefectural Enterprise International Expansion Promotion Council" was established in fiscal 2014. Under the supervision of this council, an Environmental Subcommittee was established in addition to the Taiwan Subcommittee and the Aerospace Subcommittee, and each has engaged in its activities.

The Environmental Subcommittee aims to preserve the environment of emerging and other nations where environmental problems are being actualized in such regions as ASEAN, and to provide support for overseas expansion that uses environmental technologies of small- and medium-sized companies in Mie Prefecture. In subcommittee meetings, we conduct case studies regarding knowhow for companies' overseas expansion and exchange information on the problems of respective member countries.

Contents

Date: 14:00 ~ 17:00, March 4, 2019

Venue: Middle Meeting Room, Yokkaichi City Chamber of Commerce and Industry 3F

Members: A total of 25 participants, including 15 general participants and participants from companies, as well as people concerned from companies that gave lectures, Mie University, Mie Prefectural Government, Chubu Bureau of Economy, Trade and Industry, JICA, Chubu

In the seminar, following an explanation of the outline of the Small- and Medium-sized Enterprise Overseas Expansion Support System from JICA Chubu's person in charge of corporate collaboration promotion, a representative from Koa Shoji Co., Ltd., a company selected in this system, introduced concrete cases of the project. Also, a JICA Malaysia Office member introduced environmental business opportunities in his/her country.

Then, the Mie Prefectural Government provided information on the Mie Prefectural International Expansion Support Desk.

At the end of the seminar, with Visiting Professor Masaaki Sakauchi of Mie University serving as the chairman, participating companies exchanged opinions, and had a general question and answer session.

Achievements and prospects

Each company has diverse knowhow for overseas expansion. The meeting provided an opportunity to exchange detailed information on how to utilize JICA's Small- and Medium-sized Enterprise Overseas Expansion Support System, which is a key to overseas expansion, how to prepare a proposal, and difficulties and the actual situation of crisis management at the time of operating a project at a local site.

We will continue this approach in the future as well.

Using this newsletter, I would like to express my gratitude to each lecturer for their cooperation in providing very useful information as references.



Provision of information



Exchange of opinions

Renewable Energy and Energy Efficiency Partnership(REEEP)

Workshop of the West African Forum for Climate & Clean Energy Financing (WAFCCF-4) held

Outline

As one of the PFAN program activities, entrusted by Renewable Energy and Energy Efficiency Partnership (REEEP), we held the workshops below to give guidance to business developers in West Africa, who are conducting the Climate Change Adaptation and Clean Energy Project to prepare a business plan, and to support their fundraising for matching with investors.

Contents

① Workshop for country coordinators

Period: April 8-10, 2019

Venue: Lomé, Togo (Hotel Sancta Maria)

No. of participants: 15

Country coordinators who conduct dissemination activities of PFAN in West African countries explained about the current situation and issues of each country, and discussed what kind of support we can provide as PFAN for business developers. (Target countries: Senegal, Nigeria, Burkina Faso, Togo, Côte d'Ivoire, Sierra Leone, Ghana, Mali, and Liberia)



② Workshop for business developers (French-speaking countries)

Period: April 11-12, 2019

Venue: Lomé, Togo (African Biofuel and Renewable Energy Company)

No. of participants: 22 from seven projects

Seven projects that are engaged in biomass and solar power generation businesses participated in this workshop, made presentations on each project's business plan, and discussed points of improvement of their business plans with other business developers, coaches, and country coordinators



③ Workshop for business developers (English-speaking countries)

Period: April 15-16, 2019

Venue: Accra, Ghana (Best Western Premier Accra Airport Hotel)

No. of participants: 25 from seven projects

Biomass and plastic waste recycling and solar power companies participated in this workshop, and discussed points of improvement for each business plan as was done in the workshop for French-speaking countries.

With regard to ② and ③, participants will submit business plans under the guidance of coaches, and after a screening, 10 projects will be selected to participate in the Investment Forum (scheduled to be held in September 2019 at the African Development Bank) in the future.

PFAN (Private Financing Advisory Network)

The Private Financing Advisory Network, funded by the Governments of Australia, Austria, Japan, Norway, Sweden and the United States, is a global network of climate and clean energy financing experts that aims to bridge the gap between entrepreneurs developing climate and clean energy projects and private sector investors. (Secretariat: the United Nations Industrial Development Organization (UNIDO) and the Renewable Energy and Energy Efficiency Partnership (REEEP)).

PFAN Program Activities

In order to bridge the gap, it provides free consulting and coaching to those projects to have their business plans investment-ready, and organizes Investor Forums to showcase their business plans to attract funding to a group of investors.

FY2018 Yokkaichi-Commissioned Global Environmental Workshop Held for High School Students

Overview

ICETT organized a fiscal year 2018 Global Environmental Workshop, commissioned by the City of Yokkaichi. This fiscal year, the Workshop was held for 6 days from July 31 to August 5, 2018 under the theme, "What are SDGs? - Relationship between world's 17 Goals and environment."

※Sustainable Development Goals (SDGs) are a collection of 17 global goals set by the United Nations General Assembly in 2015. The SDGs are part of Resolution of the United Nations General Assembly: "Transforming our World: the 2030 Agenda for Sustainable Development."

Background and purpose

Inviting high school students from Tianjin and Long Beach, California, friendship and sister city of Yokkaichi City during the summer vacation period every year, the Workshop aims to deepen mutual understanding among these high school students and high school students from Yokkaichi City through opinion exchanges on such topics as environmental problems. This was the 11th workshop since 2008.

Contents

The participating high school students visited various facilities and companies during the workshop period. The main destinations for their study tours were as follows:

- Yokkaichi Pollution and Environmental Museum for Future Awareness
- Yokkaichi Municipal Clean Center
- Tosoh Corporation, Yokkaichi Complex
- Escolapios Kaisei Catholic Senior High School
- West Yokkaichi High School
- APiTA MATSUSAKA MIKUMO Branch of UNY Co.,Ltd. (Matsusaka City)
- Ise Grand Shrine/Okage Yokocho (Ise City)
- Kabuse-cha Café
- Grand Yokkaichi Festival

In addition to the visits mentioned above, participating students received a lecture given by Mr. Takuji Terada, President of Next Step Study Group for Environmental Education.

One of the major purposes



Courtesy visit to the mayor and city council chairman

of this workshop is to deepen international exchanges in cultural areas. In fiscal 2018, students experienced the tea culture at Kabuse-cha Café, as well as deepened their exchanges with families who operate tea farm and Kabuse-cha Café.

In addition, they were able to increase their interest in and concern for Japan by experiencing Japanese traditions and culture during their visit to Ise Grand Shrine, and participation in the Grand Yokkaichi Festival.

In the Result Presentation, intended to present students' achievements in the workshop, high school students, divided into two mixed teams of the three cities, made presentations on what they learned and their future efforts.

After the presentation, they attended the lecture "Why Are the Sustainable Development Goals (SDGs) Important? Message to senior high school students" given by Ms. Yoko Shinkai, who is Research Expert of NPO SSK, and deepened their understanding of SDGs with participating citizens.



Results presentation

Outcomes and Prospects

Through a series of program, participating high school students not only acquired knowledge about SDGs, but also identified what they need to do and presented their unique ideas for achieving those goals in each city when they went back.

We wish that through the friendships forged in the Global Environmental Workshop this time, high school students, who will lead their cities' future, will continue their exchanges and will play active roles as a bridge of these cities' friendship relationships and promote environmental preservation activities of Tianjin City, Long Beach, and Yokkaichi City in the near future.

Independent project

Environmental Seminars

Outline

ICETT introduces its activities, accepts study tours, and conducts Environmental Seminars targeted at schools in order to raise awareness of environmental conservation.

■ Results of fiscal 2018

Visitors: Shiroko Town Neighborhood Council, and Vietnamese high school students

Environmental Seminars: Mie Prefectural Kambe High School, Yokkaichi University, Mie University, Nagoya University, Osaka University, etc.

In addition to the above-stated Environmental Seminars, ICETT participated in an environmental event organized by Yokkaichi City, and co-hosted the SDGs Card Game Experience Event with the city.

With a total of 42 visitors to ICETT in fiscal 2018, and 472 attendees to Environmental Seminars, we were able to make ICETT's activities known to many people. We will continue our activities to convey the importance of environmental conservation to many generations, ranging from elementary school students to university students, as well as general public.

