

【Type of the Project】 (Adopted year: FY2011, Type A - I CAMPUS Asia Pilot Program)

A Cooperative Asian Education Gateway for a Sustainable Society: Expanding the Frontiers in Science and Technology of Chemistry and Materials

【Aim of project, Ideals of Global Human Resource on the project】

In the 21st century the relative role and importance of Asian science, technology and economic power in the World is constantly increasing. Accordingly, the Present program is targeted at education of the globally thinking and acting specialists in Chemistry and Material Science

【Summary of project】

To carry out scientific exchange between Japan (Nagoya University, Tohoku University), China (Nanjing University, Shanghai Jiao Tong University) and Korea (Seoul National University, POSTECH) targeted at the establishment of a leading Asian educational cluster in the field of Chemistry and Material Science that will become a key point in the creation of a sustainable society.

Forming the University Network with Quality Assurance

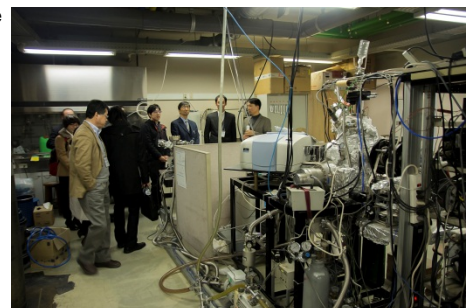
Consortium of 6 top level universities (2 each from Japan, China and Korea) in the field of Chemistry and Material Science

Shanghai Jiao Tong University, Nanjing University, Seoul National University and POSTECH participate in the Project from Chinese and Korean side, respectively. Together with Nagoya University and Tohoku University these 4 Universities from China and Korea agreed to exempt tuition fees for the exchange students. In a "Joint Exchange Agreement" the Universities of the Consortium unified their approaches to the credit and grades system for the Exchange Students.

Exchange of Top-Class Students

It is supposed that each country would choose the best students for the participation in the Project. This Program involves improvement of language abilities that will help to destroy any language barriers on the way of bringing up globally thinking chemists. Associate Professors with the experience of teaching in English are hired by our Program to give lectures in English. Besides, along with the Joint Symposia, "Educational Research Trips" to China and Korea are organized. In addition, "D2 Conference" is organized to give an additional opportunity to D2 students to train their skills in oral English presentations.

(During "Educational Research Trip" in Seoul National University)



Contents of the Programs, Preparation for the Start of the Programs

〈 Participants of the 2nd Joint Symposium; March 2013, Nanjing, China 〉



Joint Symposia

"Kick-off Symposium" took place on March 12-13, 2012 in Nagoya University. About 100 professors and students participated in the Second Joint Symposium held on March 12-13, 2013 in Nanjing University (China). The 3rd Joint Symposium will take place in November 2013 in Seoul National University.

Network facilities for real time communication

In order to be able to make possible a real time communication with the exchange partners, a TV conference system for international seminars has been established in Japanese Universities. It is planned to extend this system to China and Korea

Smaller Conferences

Specialized meetings with smaller number of participants will be organized for the discussion of research cooperation, e.g. before the Joint Symposia.

Student-Mobility

Outbound

As a rule, graduate students are selected for the exchange program. They can choose themselves a laboratory for their visit. Together with the research activities they are supposed to attend specialized courses in the Universities which they are visiting receiving credits for that. In 2012 seven students were sent abroad.

Inbound

Foreign students are encouraged to visit Japanese Universities. If in 2011 only one visiting student from China has been accepted, in 2012 the whole number of visiting students from China and Korea was 17.

	2011	2012	2013	2014	2015
Accepted number in Japan	C1,K0	C15,K7	C6,K6	C6,K6	C6,K6
Accepted number in China	J0,K0	J19,K3	J6,K5	J6,K5	J6,K5
Accepted number in Korea	J0,C0	J12,C3	J6,C5	J6,C5	J6,C5

Notes: White numbers - accomplished exchanges; grey numbers – planned exchanges.

Promotion of Student-Mobility Environment

Nagoya University and Tohoku University

In both Universities English classes led by foreign teachers via G30 Program are available. Further international activities are promoted in terms of intensive internationalization. International dormitories are provided for the visiting students.

Short Stay/Short Visit Program (SSSV)

In 2012 the cooperation with Short Stay/Short Visit (SSSV) program has been accepted in terms of the present Project. This helped to organize a system of accepting and sending abroad students for the periods less than 3 months. In 2012 7 students have already been accepted in Japan, and 5 Japanese students went abroad using this opportunity. The SSSV Program will be further used in 2013 and later when it will be expedient.

Visualization of the Content of Education, Dissemination of the Outcomes

Direct dissemination of information via Home Page and Joint Symposia

Campus Asia home page has been launched in 2011 that creates conditions for the rapid and effective exchange of information. In addition, a home page of the Campus Asia Project in Tohoku University is available. Such important events as Joint Symposia of Educational Research Trips are illuminated at the home page. Materials prepared with the help of the visiting students from abroad help to extend the bounds of the scientific cooperation and students exchange.

【Type of Project】(Adopted year: AY2011, Type A - I CAMPUS Asia Pilot Program)

A Cooperative Asian Education Gateway for a Sustainable Society: Expanding Frontiers in the Science and Technology of Chemistry and Materials

【Project Aim】

In the 21st century the relative role and importance of Asian science, technology and economic power in the World is constantly increasing. Accordingly, the current program is targeted at the education of globally thinking and acting specialists in Chemistry and Material Science

【Summary of project】

To carry out scientific exchange between Japan (Nagoya University, Tohoku University), China (Nanjing University, Shanghai Jiao Tong University) and Korea (Seoul National University, POSTECH), aiming for the establishment of a leading Asian educational cluster in the field of Chemistry and Material Science that will become a key point in the creation of a sustainable society.

Forming a University Network with Quality Assurance

Consortium of 6 Top-Level Universities (2 each from Japan, China and Korea) in the field of Chemistry and Material Science

Shanghai Jiao Tong University, Nanjing University, Seoul National University and POSTECH are participating in the Project on the Chinese and Korean sides, respectively. Together with Nagoya University and Tohoku University, these 4 universities from China and Korea have agreed to exempt tuition fees for the Project's exchange students. The universities of the Consortium unified their approaches to the credit and grades system for the exchange students under a "Joint Exchange Agreement".

Research Seminar (Shanghai Jiao Tong University, Mar. 2014)

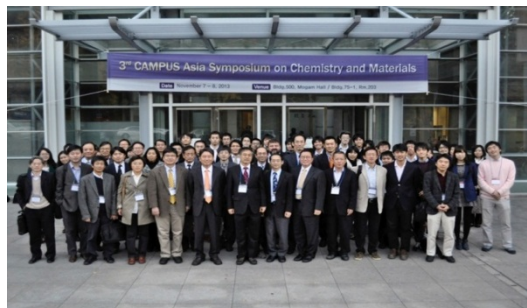


Exchange of Top-Class Students

Each country chooses its best students to participate in the Project. This Program involves improvement of language abilities that will help to break through any language barriers on the road to nurturing globally thinking chemists. An Associate Professor with experience of teaching in English is hired by our Program to give lectures in English. Besides this, along with the Joint Symposia, "Educational Research Trips" to China and Korea are offered. A "D2 Conference" is also organized to give an additional opportunity for D2 students to hone their skills in oral English presentations.

Outline of exchanges accomplished and preparation for future activities

Participants of the 3rd Joint Symposium (Nov. 2013, Seoul National University)



3rd Joint Symposium

The 3rd Joint Symposium took place on November 7-9, 2013 at Seoul National University (Korea) and brought together over 100 participants. The next Joint Symposium will take place in November 2014 at Tohoku University.

Intensive Lectures at Collaborating Universities

The Campus Asia Program also supports smaller meetings and activities (e.g. lecture tours) stimulating joint research. Besides this, professors from the collaborating universities deliver lectures to the students visiting their universities during educational research trips.

	2011	2012	2013	2014	2015
Accepted number in Japan(J)	C1,K0	C15,K7	C11,K9	C6,K6	C6,K6
Accepted number in China(C)	J0,K0	J19,K3	J24,K2	J6,K5	J6,K5
Accepted number in Korea(K)	J0,C0	J12,C3	J27,C7	J6,C5	J6,C5

J=Japan, C=China, K=Korea AY2011-2013: Results, AY2014-2015 : Planned
Note: The number of students for educational exchanges is included in these figures

Student Mobility in Terms of Exchange Programs

Outbound

As a rule, graduate students are selected for the exchange program. They can choose a laboratory for their visit. Together with their research activities, they attend specialized courses at the universities they and receive credits. In 2013, 13 students were sent abroad.

Inbound

Foreign students are encouraged to visit Japanese Universities. In 2013 the total number of visiting students from China and Korea was 20.

Promotion of Student Mobility Environment

Summer Schools Promoting International Student Exchange

The students of Tohoku University are gaining invaluable experience of international activities by organizing the Summer Schools. They carry out all necessary arrangements, including inviting the overseas students, providing accommodation, directing the conference, etc.

Improvement of Education Environment

At both Nagoya and Tohoku Universities English classes are available, led by foreign teachers via the G30 Program. Wider international activities are promoted in terms of intensive internationalization, and international dormitories are provided for the visiting students.

Visualization of the Content of Education, Dissemination of the Outcomes

Direct Dissemination of Information via Home Page and Joint Symposia

The Campus Asia home page is periodically updated for the rapid and effective exchange of information. Such important events as the "Joint Symposia" and "educational research trips" are promoted on the home page. Materials prepared with the help of the visiting students from abroad help to extend the bounds of scientific cooperation and student exchange.

Participants of the Summer School (Aug. 2013, Tohoku University)



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Contents of the Programs, Preparation for the Start of the Programs

<Participants of the 4th Joint Symposium (Nov. 2014, Tohoku University)>



4th Joint Symposium

The 4th Joint Symposium took place on November 26-27, 2014 at Tohoku University (Japan) and brought together over 100 participants. The next Joint Symposium will take place in November 2015 at Shanghai Jiao Tong University.

Lectures at Collaborating Universities

The Campus Asia Program also supports smaller meetings and activities (e.g. lecture tours) stimulating joint research. Besides this, professors from the collaborating universities deliver lectures to the students visiting their universities during educational research trips.

<Summer School (Seoul National University, Aug. 2014)>



Student-Mobility

Outbound

As a rule, graduate students are selected for the exchange program. They can choose a laboratory for their visit. Together with their research activities, they attend specialized courses at the universities they and receive credits. In 2014, 8 students were sent abroad.

Inbound

Foreign students are encouraged to visit Japanese Universities. In 2014 the total number of visiting students from China and Korea was 17.

	2011	2012	2013	2014	2015
Accepted number in Japan(J)	C1,K0	C15,K7	C11,K9	C30,K9	C6,K6
Accepted number in China(C)	J0,K0	J19,K3	J24,K2	J2,K5	J6,K5
Accepted number in Korea(K)	J0,C0	J12,C3	J27,C7	J15,C5	J6,C5

Promotion of Student-Mobility Environment

Note : FY2011-2014 results, FY2015 planned. : The number of students for educational exchanges is included in these figures

Summer Schools Promoting International Student Exchange

This year a Summer School is organized by Seoul National University. Students from all participating universities will attend lectures, presentations and excursions to the industrial facilities. In Tohoku university, as usual, this year International Summer School will take place. Students will exert all necessary activities including the invitation of foreign students and management of the conference, thus getting an invaluable experience in international relations.

Improvement of Education Environment

At both Nagoya and Tohoku Universities English classes are available, led by foreign teachers via the G30 Program. Wider international activities are promoted in terms of intensive internationalization, and international dormitories are provided for the visiting students.

Internationalization of the university

Information disclosure and Publication of outcome

Direct Dissemination of Information via Home Page and Joint Symposia

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URL Campus Asia Home Page

<http://campusasia.apchem.nagoya-u.ac.jp/wordpress/eng/>

Tohoku University Campus Asia Home Page

<http://web.tohoku.ac.jp/project-chem/>

<Summer School (Tohoku University, Aug. 2014)>



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○ Consortium of 6 Top-Level Universities (2 each from Japan, China and Korea) in the field of Chemistry and Material Science

Shanghai Jiao Tong University, Nanjing University, Seoul National University and POSTECH are participating in the Project on the Chinese and Korean sides, respectively. Together with Nagoya University and Tohoku University, these 4 universities from China and Korea have agreed to exempt tuition fees for the Project's exchange students. The universities of the Consortium unified their approaches to the credit and grades system for the exchange students under a "Joint Exchange Agreement".

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<Summer School (Tohoku University, Aug. 2015)>



Contents of the Programs, Preparation for the Start of the Programs

<Participants of the 5th Joint Symposium (Nov. 2015, SJTU)>



○ 5th Joint Symposium

The 5th Joint Symposium took place on November 5-7, 2015 at Shanghai Jiao Tong University (China) and brought together over 100 participants. 12 Students and 13 professors and staff participated the symposium from Japan.

○ Lectures at Collaborating Universities

The Campus Asia Program also supports smaller meetings and activities (e.g. lecture tours) stimulating joint research. Besides this, professors from the collaborating universities deliver lectures to the students of the visiting universities.

Two Seminars by Professor Tae-Lim Choi of Seoul National University were held at Nagoya university on Jan 20 and Jan 21, 2016.

Student-Mobility

○ Outbound

As a rule, graduate students are selected for the exchange program. They can choose a laboratory for their visit. Together with their research activities, they attend specialized courses at the universities they and receive credits. In 2015, 11 students were sent abroad.

○ Inbound

Foreign students are encouraged to visit Japanese Universities. In 2015 the total number of visiting students from China and Korea was 15.

	2011	2012	2013	2014	2015
Accepted number in Japan(J)	C1,K0	C16,K7	C11,K9	C30,K9	C14,K1
Accepted number in China(C)	J0,K0	J19,K3	J24,K2	J2,K0	J17,K10
Accepted number in Korea(K)	J0,C0	J12,C3	J27,C7	J15,C5	J6,C4

Note : The number of students for educational exchanges is included in these figures

Promotion of Student-Mobility Environment

○ Summer Schools Promoting International Student Exchange

In Tohoku university, as usual, the International Summer School took place.

Students exerted all necessary activities including the invitation of foreign students and management of the conference, thus getting an invaluable experience in international relations. Students from all participating universities attended the lectures, presentations and excursions to the historical places.

○ Improvement of Education Environment

At both Nagoya and Tohoku Universities English classes are available, led by foreign teachers via the G30 Program. Wider international activities are promoted in terms of intensive internationalization, and international dormitories are provided for the visiting students.

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<Four international students from Nagoya University attend the NU ceremony at Shanghai. (Sep 2015)>

