The sixth issue of CAMPUS Asia News

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“Cooperational Graduate School Program for the Development of Global Human Resources in Energy and Environmental Science and Technology – A New Challenge”
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Government supported CAMPUS Asia (CA) project was terminated in the fiscal year 2015. Based on its successful outcomes, three governments (Japan, China and Korea) have decided to start the 2nd stage of CA project and CAMPUS Asia EEST program organized by KU, SJTU and PNU is approved to proceed another 5 years as Cooperational Graduate School Program for the Development of Global Human Resources in Energy and Environmental Science and Technology – A New Challenge under the government support.

This News Letter reports details of the 2nd stage CAMPUS Asia EEST program in fiscal year 2016. Because the government support for the 2nd stage CA project started from August 2016, the CAMPUS Asia EEST program was operated under self-funded support of each university in the first half of fiscal year 2016 for continuation of the DD program.

1 The 2nd stage CA EEST program has started

In the 1st stage CA EEST project, a double degrees (DD) program of Master course in the field of Energy and Environmental Science and Technology (EEST) has been successfully established under the collaboration among Pusan National University (PNU), Shanghai Jiao Tong University (SJTU) and Kyushu University (KU).

One of the main purposes of the 2nd stage CA EEST project is to regularize the DD program in their graduate schools and to extend the program to involve more students with openness, progressiveness and universality in science and engineering field. To realize the regularization of the DD program seems quite hard and is really a new challenge. Nevertheless, the three universities will try to realize it within 5 years. Furthermore, development of a DD program in doctoral course is also another new challenge. Operation of Summers School as an open program is also targeted.
The 2nd stage CA EEST program takes over the previous purposes. Moreover, it challenges following three new targets;

1. Regularization of the DD program developed in the previous CA EEST program,
2. Operation of Summer School (SS) as an open program with trial to charge school fees from students exterior of the EEST course,
3. Realization of double degrees or joint degree (DD/JD) in doctoral course as a pilot program with quality assurance in awarding DD/JD as well as Credits given in the program to regularize the DD/JD program in their graduate schools and to extend the program to involve more students with openness, progressiveness and universality in science and engineering field.

To widen the program, some of CA EEST course programs, such as SS and seminars in spring and autumn, are and will be widely open for non-DD students in the three universities. Charging the school fees is another new challenge and necessary to run the program without government support after the termination of the here-proposed program.

Annual schedule is given in the right figure. For DD course students in master course, one semester exchange and attendance of two times of SS are mandatory. Accordingly, 30 ~ 36 DD students in total (10-12/each university) will stay at Host Universities and 66-72 (except the first year) attend SS annually. Some will attend a research seminar named CSS. CSS is organized mainly for doctoral course students and 10-20 students from each university will attend. Some faculty members in three universities are required to attend to SS/CSS as lecturers or organizing members. Some of PDCA members in each university are also required to attend PDCA LEADERS meeting aperiodically held. Since SS will be open for students exterior to the CA EEST course, around 10 master course students will join in every year. Numbers of inbound and outbound students and faculty members exchanging are increasing continuously.

In 2016, the present MOU for aiming DD in master course should be extended for 5 years to continue the DD program presently operated. A new MOU for exchange of doctoral course students shall be concluded, too. During the 2nd stage CA EEST program, a new DD/JD program in doctoral courses will be designed and approved to conclude a new MOU for DD/JD in the doctoral courses. To do this, selection of DD or JD must be made. Sometime in 2018-2019 after concluding the new MOU for DD/JD in the doctor course, 1-2 DD candidate doctoral course students in each university will be enrolled in Host University to start the DD/JD program.

PDCA leaders committee controls the program as given in Fig. 2. In each consortium university, her student office will make full students support under the control of each local PDCA committee.
The kick-off symposium celebrating the start of the 2nd stage CA EEST program was successfully held at February 22, 2017 in Reisenkaku Hotel, Fukuoka. More than 100 participants including staff members, professors and students involved in the program and many interested public attended. On the right is given the program of the symposium which used the same background in the new pamphlet for introduction of the CA EEST program.

The symposium under the title of “Reinventing Japan Project, CA EEST cooperated by KU, PNU and SJTU, 2nd Stage Kick-off Symposium” started with the opening speech by Prof. Sanae-I Itoh, Executive Vice President of KU. Mr. Hiroki Taura, Director for International Analysis, Higher Education Bureau, MEXT, followed with a special address encouraging the CA EEST program. Afterwards Prof. Kazuo Ogata, Vice President of KU and Prof. Seigi Mizuno, the leader of CA program of KU introduced present status and future plan of international education and the CA EEST program of KU, respectively. Three keynote lectures from the three universities relating Energy and Environmental Science and Technology attracted great interests of all attendee.

<table>
<thead>
<tr>
<th>Number of participants</th>
<th>Outside of KU</th>
<th>KU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KU</td>
<td>PNU</td>
</tr>
<tr>
<td>Students</td>
<td>13</td>
<td>17</td>
</tr>
<tr>
<td>Staff</td>
<td>21</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>34</td>
<td>27</td>
</tr>
</tbody>
</table>

Opening address by Prof. S-I, Itoh
Special address by Mr. Taura, MEXT
Introduction of KU international program by Prof. Ogata
Before closing the kick-off symposium, the signing ceremony for extension of students exchange agreement aiming DD (MOU) was held. Since the MOU for the 1st stage CAMPUS Asia EEST program will expire after March 31, the three universities agreed to extend it for five more years. Three representatives of consortium universities, Prof. Yang Shengrong, Vice dean of graduate school, SJTU, Prof. Harata Akira, Dean of IGSES, KU, and Prof. Lee Suk, Dean of Faculty of Eng. PNU have attended. Prof. Wang Yaguang, who is the responsible person of CA EEST program of SJTU, was not able to attend. Therefore, he signed beforehand. Accordingly the 2nd stage CA EEST program has officially started.

### II-3 CA Spring Seminar

After the kick-off symposium, Spring Seminar was conducted for CA EEST course students, professors and staff members of the CA EEST program. The seminar consists of Scientific Tours to Minamata Disease Municipal Museum, Sendai Thermal Plant of Kyushu Electric Power CO. INC., and Kyocera Corporation and Field Trip to Bird (Crane) watching at Tsuruno-sato park, Kirishima Jingu shrine, Takachiho Gawara (old Kirishima Jingu), sweet Potato Shouchu Brewery and Sengan-en and Shoko-shusei-kan Park. The rough schedule and number of participants are given in tables 1 and 2, respectively.

**Table 1 Schedule**

<table>
<thead>
<tr>
<th>Date</th>
<th>Morning Activity</th>
<th>Afternoon Activity</th>
<th>Evening Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/23 (Thurs.)</td>
<td>Departure to Minamata Disease Municipal Museum</td>
<td>Bird (Crane) Watching, Kyuden Sendai Thermal Plant</td>
<td>Student Session(Discussion Session)</td>
</tr>
<tr>
<td>2/24 (Fri.)</td>
<td>Morning: Kyocera Corporation.</td>
<td>Afternoon: Kirishima Jingu shrine, Takachiho-gawara Kirhisimia-cho sweet Potato Shouchu Brewery</td>
<td>Student Session (Debate on utilization of solar energy)</td>
</tr>
<tr>
<td>2/25 (Sat.)</td>
<td>Morning: Sengan-en and shoko-shusei-kan Park</td>
<td>Afternoon: To Fukuoka airport</td>
<td></td>
</tr>
</tbody>
</table>

**Table 2 Number of Participants**

<table>
<thead>
<tr>
<th></th>
<th>KU</th>
<th>PNU</th>
<th>SJTU</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1 (DD candidate)</td>
<td>7</td>
<td>15</td>
<td>12</td>
</tr>
<tr>
<td>Staff</td>
<td>4</td>
<td>8</td>
<td>6</td>
</tr>
</tbody>
</table>

Prof. Yang Shengrong (Vice Dean of Graduate School, SJTU)  
Prof. Harata Akira (Dean of IGSES, KU)  
Prof. Lee Suk (Dean of Faculty of Eng, PNU)
Minamata Disease Municipal Museum impressed most of students. In replys to questionnaires made after the SS, a students wrote “it made me know how serious results the environmental pollution could lead to and made me realize the importance of environmental protection”.

After watching video presentation of Sendai thermal plant, most of facilities in the plant were introduced by bus tours. Students and even professors were very much interested in the real facilities and asked various questions concerning not only electric power production but also activities for protecting environment of the plant, such as the processing of exhaust from the pant. In the exhibition hall of Kyocera, many different kinds of products, mostly made of ceramics, were displayed. For all, many of them were the first time to see, because they were hiddend in packages of any electronic equipments, and they have realized how fine ceremics are. The analysis center of Kyocera equips many apparatus for examination/inspection of original materials and products. Some students know how expensive they are and have wish to use them for their research. Exhibition of artificial jewels such as sapphire and ruby attracts particular interests of female students.

For all participants, it was the first experience to watch hundreds of cranes gathered in the Tsurunosato park in Izumi City, Kagoshima. Most of participants tried to make good pictures with their cameras and cellphones. Kireshina-Jingu shrine attracted special interests relating Japanese culture and some participants bought Omikuji (paper fortune) and enjoyed or disappointed with Kichi (happy fortune) and Kyo (unhappy fortune), respectively. Takachiho-gawara was a special place even for Japanese as the place of Tensonkorin: the descent to earth of the grandson of the sun goddess. Foreign students looked like to feel something related to Japanese culture. Sengan-en and Shoko-kan park, helped by fine weather, gave nice impressions. All said “Beautiful scenery or how wonderfull! ”.

The most important envent in SS were two students sessions held at the hotel, discussion session at the first evening and debate session in the second evening.

In the discussion session, all students were asked to make a self-introduction and to give impressions on their visit to Minamata Disease Municipal Museum and power plant considering energy and environment. Owing to the common observations, the discussion was easy and the self-introduction helped studentet exchange very much. In the second evening, debate session was conducted on utilization of renewable energy among four groups into which all students were devided. In each group, students from three universities were mixed up and defending subjects of the groups were (1) photovoltaics, (2) solar thermal, (3) wind, and (4) biomass. For most of the students, the debate in English was the first experience and seemed a little difficult. Nevertheless, they tried to do their best and it was a nice opportunity to exchange ideas and opinions among foreign students.
In the fiscal year 2016, the total of 26 students (show in a table right side) have graduated with double degrees (DD) in two universities among the consortium three universities. From this fiscal year, a certificate indicating successful graduation with DD signed by three presidents of the consortium universities is awarded. The final target at the beginning of CA program started at 2012 was to establish Join Degree (JD). At that time JD was not possible in Japan and China. Now it is not still possible in China. Awarding the certificate signed by the three presidents looks like awarding JD. Thus, the present DD system can be defined as a new form of DD awarding program.