In order for Kyushu University to produce future global leaders who challenge themselves to make their dreams into reality, QREC strives to be one of the top entrepreneurship centers in Asia.

Hirofumi Taniguchi
Director, Robert T. Huang Entrepreneurship Center of Kyushu University (QREC)
Professor, Arts, Science and Technology Center for Cooperative Research, Kyushu University (CASTEC)

The sources of humanity’s creative activities are intellectual curiosity and an indomitable spirit, which also serve as driving forces of innovation. Entrepreneurship is not limited only to the entrepreneurial spirit behind startups and ventures, but should be understood to encompass the essential qualities of the individual who shoulders the responsibilities for advancing society and developing the world.

The objective of our center’s program is the development of innovative leaders who will embark on creating new values and bring about societal change. In addition to seeking closer ties with domestic and international organizations and institutions, QREC itself will pursue specific goals by taking on new initiatives to achieve the above objective. QREC offers a consistent, systematic entrepreneurship education curriculum for students throughout Kyushu University, from first-year undergraduates in every school to doctoral degree candidates in graduate school. The educational initiatives undertaken by our center have received very positive evaluations from both inside and outside the university, and as of 2015 (the 5th year of the program), the cumulative number of students who have studied at QREC in either regular courses or Student Initiative Programs exceeds 3,400. This figure shows how the experiments our center are steadily permeating themselves throughout the University, gradually generating tremendous results in terms of producing human resources with an abundant spirit of challenge.

In terms of course operation, from an early stage we have been incorporating two-way courses aimed at active learning, such as design thinking and project-based learning, that are centered mainly around workshops, as well as classes that provide a practical sense of the real world through lectures presented by entrepreneurs invited to speak as guest instructors. Furthermore, from the perspective of fostering local innovation personnel, we have cooperated with various universities including Aalto University (Finland), Chalmers University of Technology and the University of Gothenburg (Sweden) and invited elite teaching staff from those universities to conduct intensive courses for not only students but also instructors. QREC is also expanding its activities on various fronts, including implementation the Enhancing Development of Global Entrepreneur Program (EDGE Program), hosting of the annual Innovation Education Conference, and start-up-related activities undertaken as part of industry-academia-government collaboration.

I hope that this report allows the leaders to more fully understand our center’s activities, and that you will share your opinions and suggestions with us. Thank you for your continued support and cooperation.
Developing future leaders who will play active roles in the global arena

QREC provides students at Kyushu University with a leading entrepreneurship education that will produce future entrepreneurial leaders who can spread their wings internationally, and with a sense of independence and ambition, a global point of view, and a willingness to actively create new values.

QREC strives to develop talented individuals who will challenge themselves to not only start new ventures but also create new values in a large company, in academia, and in any other field in society.

QREC serves as a hub for the nurturing of entrepreneurship in our region.

The Talents We Foster

- The ability to discover and/or create an opportunity by one’s self, to set one’s goals and to find the path to achieve them

- The willingness to challenge one’s self to create new values

- A sense of independence

- The knowledge and ability to observe society and the world from a broader point of view (‘T-shaped people’, ‘Global talent’)

- The motivation to utilize knowledge in society, as well as the ability to create practical value (‘MOT people’)

QREC aims to achieve our objectives, which include leadership development at Kyushu University, further internationalization, and effective branding of Kyushu University, and the enhancement of social cohesion by promoting industry-academia collaboration.

QREC provides both undergraduate and graduate students at Kyushu University with systematic programs and interdisciplinary education concerning entrepreneurship, while carrying out B & D activities on entrepreneurship in collaboration with leading national and international universities and research institutes that are highly regarded in terms of entrepreneurship education.

QREC focuses on the following six activities

1. Providing all students in Kyushu University with advanced and systematic education concerning entrepreneurship
2. Conducting research on entrepreneurship and effective methods of entrepreneurship education
3. Carrying out social and regional entrepreneurship activities in collaboration with the community
4. Disseminating information on entrepreneurship and carrying out exchange activities with domestic and overseas institutes to promote closer collaboration
5. Assisting with R & D activities concerning venture businesses
6. Operating and managing business incubation facilities

Through these efforts, QREC aims to achieve our objectives, which include leadership development at Kyushu University, further internationalization, and effective branding of Kyushu University, and the enhancement of social cohesion by promoting industry-academia collaboration.

QREC is Japan’s first institute to offer systematic and integrated entrepreneurship education programs for students from both undergraduate and graduate school.

A combination of entrepreneurship education and MOT education

QREC offers a broader definition of ‘entrepreneurship education’, and offers comprehensive education programs with the aim of producing future leaders.

Practical approach to industry-academia collaboration

QREC encourages students to participate in international student organizations for networking purposes, while promoting interactive and student-participation programs. QREC uses the case study method to offer practical hands-on training. QREC asks industries for their active participation in providing human resources and opportunities for practical training programs.

QREC is building its network with universities and industries in the United States, Europe, Asia, and will be doing so. QREC aims to develop a curriculum that meets international standards, while actively promoting international exchange activities for students and faculty members. Additionally, QREC encourages foreign students to take an active part in QREC programs. Their participation brings diversity to the learning environment at QREC.

Global perspective

In collaboration with leading international universities and institutions, QREC ensures opportunities for people to interact with the best resources available overseas. QREC also encourages foreign students to take an active part in QREC programs, and promotes collaboration with the International School of Arts and Sciences of Kyushu University (a new department in the planning stage) so that it can teach students to acquire global perspectives.

QREC aims to be one of the top full-fledged entrepreneurship education and research centers not only in Kyushu and Japan, but also in Asia.
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996</td>
<td>Establishment of the Venture Business Laboratory (VBL)</td>
<td>VBL was established by an allocation in the 1996 government budget that covered &quot;Expansion For Promotion of Creative Research and Development Centered Around Graduate Schools,&quot; with the purpose of carrying out creative and advanced interdisciplinary studies, as well as to support research projects that nurture young entrepreneurs.</td>
</tr>
<tr>
<td>1997</td>
<td>Commencement of Challenge &amp; Creation (C&amp;C)</td>
<td>The C&amp;C was initiated as a university-wide project idea competition established by the President’s discretionary expense fund.</td>
</tr>
<tr>
<td>2006</td>
<td>Commencement of Kyushu University Robert T. Huang Entrepreneurship Program (QREP)</td>
<td>QREP is an entrepreneurship program conducted each year in Silicon Valley in the United States with the aim to cultivate a willingness to take on challenges and to foster global entrepreneurs.</td>
</tr>
<tr>
<td>2010</td>
<td>Establishment of the Robert T. Huang Entrepreneurship Center of Kyushu University</td>
<td>The center was established in 1997 to promote entrepreneurship and innovation. The center continued to operate until 2006, focusing on providing resources and support for students and faculty to develop innovative projects and start new businesses.</td>
</tr>
<tr>
<td>2011</td>
<td>Holding of a symposium to commemorate the establishment of QREC</td>
<td>A symposium was held in March to commemorate the establishment of QREC. The symposium included keynote speeches by corporate leaders and panel discussions on entrepreneurship.</td>
</tr>
<tr>
<td>2011</td>
<td>Commencement of formal lectures (16 subjects)</td>
<td>University-wide education; graduate school common subjects; the lectures have expanded to 35 subjects as of 2013 academic year.</td>
</tr>
<tr>
<td>2012</td>
<td>Holding of the National VBL Forum</td>
<td>The forum was held for faculty and students to discuss the progress of the VBL and future plans.</td>
</tr>
<tr>
<td>2013</td>
<td>QREC’s educational initiatives are mentioned in the 2013 White Paper on Science and Technology</td>
<td>A student group in the Department of Hydrogen Energy Systems, Graduate School of Engineering supervised by Associate Professor (as of 2013) Mirgani Kajima won the Grand Prize in the &quot;Hydrogen Student Design Contest 2013&quot; organized by the United States Department of Energy (DOE).</td>
</tr>
<tr>
<td>2013</td>
<td>Holding of a 3-day International Workshop on Entrepreneurship Education</td>
<td>A first-time experiment for QREC: the three-day international workshop on entrepreneurship education (language: English) was held in Kyushu, bringing together educators and participants from 12 countries.</td>
</tr>
<tr>
<td>2014</td>
<td>Conclusion of collaboration agreement with Aalto University</td>
<td>Aalto University’s School of Arts, Design and Architecture, Kyushu University’s Faculty of Design and QREC concluded as academic exchange agreement.</td>
</tr>
<tr>
<td>2014</td>
<td>Selected by MEXT for the EDGE Program</td>
<td>Representing eight Kyushu University departments, QREC applied for and won recognition as an EDGE (Enhancing Development of Global Entrepreneurship) Program, a major budget item for the 2014 fiscal year implemented by MEXT.</td>
</tr>
<tr>
<td>2014</td>
<td>Global Challenge &amp; Creation (G.C.C.)</td>
<td>The winning student group of the President’s Award for the 2013 academic year's Challenge &amp; Creation (G.C.C.) entered the 2014 TEDC Green Tech Contest of Competition (Taiwan).</td>
</tr>
<tr>
<td>2014</td>
<td>9th Japan New Business Creation Awards, Support category Winner, METI Minister's Award (the top award)</td>
<td>Won the METI Minister’s Award, the highest award in the Support category of the 9th Japan New Business Creation Awards, organized by the Japan New Business Creation Association.</td>
</tr>
<tr>
<td>2015</td>
<td>Hosted the 3rd Innovation Education Conference Annual Meeting</td>
<td>With QREC serving as host and coordinator, the 3rd Innovation Education Conference Annual Meeting was held at Kyushu University, the first time the event was held outside of Tokyo.</td>
</tr>
<tr>
<td>2015</td>
<td>Seminar for entrepreneurship educators held by guest lecturers from overseas</td>
<td>Lecturers from Chalmers University of Technology were invited to give a seminar for entrepreneurship educators.</td>
</tr>
<tr>
<td>2015</td>
<td>Relocated QREC office to Iio Campus</td>
<td>In accordance with the plan to relocate Kyushu University by 2018, QREC moved from Hikosaki Campus to Iio Campus in September 2015 academic year.</td>
</tr>
<tr>
<td>2015</td>
<td>Conclusion of collaboration agreement with the University of Dhaka</td>
<td>Agreement on Academic Cooperation between Faculty of Information Science and Electrical Engineering, Graduate School of Information Science and Electrical Engineering, and Robert T. Huang Entrepreneurship Center, Kyushu University. Japan and Faculty of Business Studies, University of Dhaka, People’s Republic of Bangladesh concluded an academic exchange agreement.</td>
</tr>
<tr>
<td>2015</td>
<td>Renewal of the Robert T. Huang Entrepreneurship Program (QREP2.0)</td>
<td>The Robert T. Huang Entrepreneurship Program (QREP), which had continued for ten years until the 2014 academic year, underwent renewal as QREP2.0.</td>
</tr>
<tr>
<td>2016</td>
<td>Setting up of the QREC Studio</td>
<td>With the rising demand for prototypes of student projects, etc., digital tools such as a 3D printer and woodworking tools were installed and operations commenced.</td>
</tr>
</tbody>
</table>
2015 Organization

QREC Core Faculty Members

Professor Hirofumi Taniguchi
Director-General, Sun Bridge Corp.
Entrepreneurship Center
Art, Science and Technology Center
Graduate School of Business
Kyushu University
Field of specialisation: Entrepreneurship Development
Global Entrepreneurial Program
Global PhD Program
Graduate School of Business
Kyushu University

Associate Professor Shingo Igarashi
Dean, Director General, Sun Bridge Corp.
Entrepreneurship Center
Graduate School of Business
Kyushu University
Field of specialisation: Management Strategy
Theory

Associate Professor Toru Tanigawa
Specialty appointed Professor
Entrepreneurship Center
Graduate School of Business
Kyushu University
Field of specialisation: Entrepreneurship Development
Global Entrepreneurial Program
Global PhD Program
Graduate School of Business
Kyushu University

Professor Megumi Takata
Department of Business and Technology Management
Graduate School of Business
Kyushu University
Field of specialisation: Venturing
Management of Technology (MITI)
Entrepreneurship

Associate Professor Yuichi Harada
Art, Science and Technology Center
Graduate School of Business
Kyushu University
Field of specialisation: Venture Development
Entrepreneurship

Associate Professor Yassuyuki Hirai
Department of Design Strategy
Faculty of Design

Associate Professor Emi Makiya
Graduate School of Business
Kyushu University
Field of specialisation: Global Entrepreneurial Program
Global MBA Program
Graduate School of Business
Kyushu University

Professor Fusihiko Tanaka
Department of Business and Technology Management
Graduate School of Business
Kyushu University
Field of specialisation: Management Strategy
Theory

Associate Professor Kenichi Hagiwara
Graduate School of Business
Kyushu University
Field of specialisation: Global Entrepreneurial Program
Global MBA Program
Graduate School of Business
Kyushu University

Associate Professor Emeritus Toshiro Hara
Graduate School of Business
Kyushu University
Field of specialisation: Entrepreneurship Development
Global Entrepreneurial Program
Global PhD Program
Graduate School of Business
Kyushu University

QREC Lecturers
(Part-Time Lecturers)

Graduate School of Commerce and Business Studies
Graduate School of Business Administration
Kyushu University

Professor Hironori Higashide
Graduate School of Commerce and Business Studies
Graduate School of Business Administration
Kyushu University

Assistant Dean, Management Studies
Faculty of Management, Business and Economic Studies
Kyushu University

Associate Professor Jin-ichiro Yamada
Graduate School of Management Studies
Osaka City University

Associate Professor Tsutomu Tohto
Faculty of Commerce, Fukusaki University

Professor Masaki Kuroki
Graduate School of Management Studies
Osaka City University

Associate Professor Hanao Hagiwara
Faculty of Management, Kyushu Sangen University

QREC Advisory Committee Members

Allen Miner
Chairman & CEO, Sun Bridge Corp.
First generation representative of Oracle Japan

Hardy TS Kagimoto
President & representative director,
Healios K.K.

Nobuaki Satani
Founder & CEO, PIPED BITS Co., Ltd.

Wakako Tokuda
President & CEO, CROSS FM(until June, 2015)
Manager, Next Capital Partner Co., Ltd.

Hirokazu Hasegawa
Executive adviser, HASEGAWA Co., Ltd.
Former Chairman, Japan New Business Conference

Shuichi Matsuda
Chairman, WERU INVESTMENT Co., Ltd.
Consulting Professor, School of Engineering
Stanford University
Director, US-Asia Technology Management Center

Yasuhiro Yamakawa
Babson College
Associate professor of entrepreneurship

Richard B. Dasher
Consulting Professor, School of Engineering
Stanford University
Director, US-Asia Technology Management Center

Robert T. Huang
Founder of SYNEX Corporation
Director of Threeps Group Inc.
Honorary Doctor of Kyushu University

QREC Steering Committee Members

Setsuo Taniguchi
Vice-president of the Faculty of Arts and Science

Mitsuru Hamamoto
Graduate School of Human-Environment Studies
Graduate School of Economic

Megumi Takata
Department Head, Business & Technology Management
Graduate School of Economic

Hideki Sumimoto
Graduate School of Medical Sciences, Dean

Hiroshi Takamatsu
Graduate School of Engineering, Dean

Akira Yasukouchi
Graduate School of Design, Dean

Kazuki Hiramatsu
Graduate School of Bioresource and Bioenvironmental Sciences, Dean

Shingo Igarashi
Deputy Director General, QREC
The Robert T. Huang Entrepreneurship Center relocates to Ito Campus

To Ito Campus!

In accordance with the Kyushu University plan to relocate by 2018, QREC relocated from Hakozaki Campus to Ito Campus in September 2015. The move took five days to accomplish and changes were made to various kinds of facilities.

QREC Studio has been newly set up

The QREC Studio has been newly set up on the Ito Campus due to the demand for use of digital machine tools. Students are able to use this equipment.

You can find out the state of reservations for the Studio by checking QREC's home page. Any student wishing to use the Studio must first submit a reservation request. For details, please see QREC Studio's home page:

http://qrec.kyushu-u.ac.jp/qrecstudio/

State of reservations for QREC Studio

N.B. Please see "QREC Facilities" on page 51 regarding the equipment, etc., set up in the QREC Studio.
Innovative Human Resources Training Based on Work Experience in Emerging Countries

“Entrepreneurship in Designing new value for BOP people”

Taking on the Challenge of Solving Problems Faced by Emerging Countries with Design Thinking

In the 2013 academic year, QREP started a new innovation education program including a week of remote fieldwork in the emerging People’s Republic of Bangladesh the first trial of its kind by a Japanese educational institution. It was implemented for the second time in the 2015 academic year.

Sixteen students, divided into four groups, considered solutions on the theme of healthcare (medicine, health, and hygiene) for agricultural communities which are known as the base of the pyramid (BOP). They then presented relevant business plans.

June to September 2015

1. Week of fieldwork: People’s Republic of Bangladesh
2. Osaka University: Students from undergraduate and graduate schools
3. Support: See-D Grammar Group

Bangladesh

- Population: 152.3 million
- Population density: 2.173 people/km²
- GDP per capita: 5700 (2013)

Orientation

Fukuoka City

June 20 (Sat.), June 20 (Sun.), July 12 (Sun.)

- (Study of problems faced by developing countries)
- (Workshop for designing thinking)

Local on-site training

Bangladesh

August 9 (Sun.) - August 18 (Thu.)

- Field research
- Exchange meetings (prototype production)
- Exchange meetings with society (Final Presentation)
- Interview with Dr. Mahamoud Tawas

Follow-up

Fukuoka City

August 29 (Sat.)

- Seminar
- Evaluation of the practical application of the proposal

Examination board

Fukuoka City

September 13 (Sun.)

- Presentations and examinations of proposals

Proposal of Four Business Models that are Sustainable in the BOP Market

Sixteen students from various departments such as economics, medicine, engineering, law and education devised four unique business models with support from advisors, See-D and the Grameman Group, and local residents. They held a conference at the Grameman Center in Bangladesh and also in Fukuoka after returning to Japan.

Kyushu University Robert T. Huang/Entrepreneurship Program II (QREP2.0)

Designed to Encourage a Spirit of Challenge and Global Awareness

Designed to foster entrepreneurship and an international outlook, the QREP program was brought about thanks to the support of Dr. Robert T. Huang, a graduate of Kyushu University. This year, QREP marks its 10-year anniversary, and in the 2015 academic year, the program underwent an upgrade to QREP 2.0 with the aim of increasing opportunities for more specific challenges.

Participants spend a week in Silicon Valley in America, receiving lectures from Silicon Valley luminaries, visiting companies, and meeting with students from Stanford University. These experiences enable students to consider their career development, providing opportunities to hone their ambition and international awareness. In addition, with a view to undertaking a specific project, we provide an opportunity to make a presentation to Silicon Valley venture capitalists and hear opinions from an investor’s viewpoint, as a step towards participating in an English pitch contest.

In the 2015 academic year 11 students from various science and humanities-related undergraduate and graduate schools at Kyushu University took part, as well as four students from partner institution Wasada University, with three graduates of Kyushu University Business School serving as mentor to each team.

For more information, see QREP 2.0 on page 42 and Entrepreneurship Workshops on page 43.
<table>
<thead>
<tr>
<th>2015 Schedule</th>
</tr>
</thead>
</table>

### Education

**April**
- **GREC 2015 First semester classes open**
- **Briefing on B-Bridge Internships (April 22)**

**May**
- **Presentation ceremony of the President’s Award for SME 2014** (May 26)
- **GREC 2015 Examination Board (May 28)**
- **SEA Battle “Hi-Battle” Exam Board (June 17)**
- **GREC 2015 Examination Board (June 22)**

**June**
- **Assessment meeting with Students (July 29)**

**August**
- **GREC Business Plan Presentation (August 1)**
  - **Entrepreneurship in Designing New Value for BDP Program** sessions in Bangkok (August 9 to 10)
  - **Global Seminar Intensive Lecture (August 17 to 21)**
  - **Students in GREC participated in Taiwan’s 2015 TEDx Talk: In 2030 Taiwan will be a world-class hub for innovation and entrepreneurship** (June 18)

**September**
- **Students in GREC participated in “Startup Weekend Los Angeles” Los Angeles, USA** (accompanied by Associate Professor Makino) (September 25 to 27)
- **NEXT EDGE Program Symposium held to commemorate the academic exchange agreement between the University of Shizuoka’s Faculty of Business Studies, Kyushu University’s Graduate School of Information Science and Electrical Engineering and GREC** (September 26)

**October**
- **GREC 2015 Second semester classes open**
- **Nihon Technomaku Consulting Co., Ltd. GREC Business Creation Camp 2015** (October 11 to 12)
- **SEA Battle “Hi-Battle” Exam Board (October 14)**
- **SEA Battle “Hi-Battle” Final Examination Board (October 15)**
- **GREC Mid-term Presentation (October 15)**
- **GREC Mid-term Presentation (October 22)**

**November**
- **GREC Kudaike Festival Simulated Store Operation (November 20 to 22)**
- **Fukuzawa (November 13 to 15)**

**December**
- **Design Innovation PBL Program collaborates with industry Final Presentations (January 14)**
- **GREC Shareholders Meeting (January 18)**

**February**
- **SEA Battle “Hi-Battle/GREC Final Presentation February 19**
- **GREC 2015 Final Presentations (February 19)**
- **Global PBL Program lectures at Aizu University (Accompanied by Special-appointed Professor Tanigawa and PM Yamada February 18 to 20)**

**March**
- **Kyushu University Robert T. Huang Entrepreneurship Program (GREC2.0) Final Presentations (March 19)**
- **Kyushu University Robert T. Huang Entrepreneurship Program (GREC2.0) Final Presentations (March 19)**

### Social Outreach

- **Associate Professor Ignashy participates in the Santa Clara University Society. Technology and Japanese Entrepreneurship Conference KJJA (April 1 to 6)**

### Research

- **Associate Professor Ishigaki participates in the Santa Clara University Society. Technology and Japanese Entrepreneurship Conference KJJA (April 1 to 6)**

### Organization & Administration

- **Distribution of GREC 2015 course guide begins**
- **GREC Steering Committee convenes (June 22)**
- **EDGE site visit (August 6)**
- **Preparations for relocation (August 25 to 26)**
- **Respective to its Campus**
- **GREC Advisory Committee convenes (September 21)**
  - **12th National PVC Forum (September 11 to 12)**
- **Participation in EDGE Forum and selected universities meeting (September 18 to 19)**
- **Signing ceremony for MOU with University of Dhaka (September 28 to 29)**
- **Internal briefing for GREC Studio (October 20)**
- **JUS/E Annual Academic Meeting 2015 (Shizuoka University of Commerce) (October 21 to November 17)**

### Industry Collaboration

- **Specially-appointed Professor Tanigawa visit Stanford University (U.S.A) to investigate recent trends in business and technology (November 16 to 19)**

### Academic Collaboration

- **Associate Professor Ishigaki participates in the North Kyushu Drug 39 study meeting for exploring potential demand December 3**
- **Professor Tanigawa participates in the 4th International Conference on Business and Globalization (December 5 to 6)**
- **Professor Tanigawa participates in the 4th International Conference on Business and Globalization (December 5 to 6)**
- **Professor Yamada participates in the 4th International Conference on Business and Globalization (December 5 to 6)**
- **Professor Tanigawa participates in the 4th International Conference on Business and Globalization (December 5 to 6)**
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- **Professor Yamada participates in the 4th International Conference on Business and Globalization (December 5 to 6)**
- **Specially-appointed Professor Tanigawa participates in the 4th International Conference on Business and Globalization (December 5 to 6)**

### Student Engagement

- **Fukuzawa (November 13 to 15)**
- **PM Yamada attends the Design Thinking Masterclass at the Design Thinking Institute, Tokyo (February 8 to 10)**
- **Associate Professor Ishigaki participates in the North Kyushu Drug 39 study meeting for exploring potential demand (January 7)**
- **Associate Professor Ishigaki participates in the 4th International Conference on Business and Globalization (December 5 to 6)**
- **Associate Professor Yamada participates in the 4th International Conference on Business and Globalization (December 5 to 6)**
- **Specially-appointed Professor Tanigawa participates in the 4th International Conference on Business and Globalization (December 5 to 6)**
- **Specially-appointed Professor Tanigawa participates in the 4th International Conference on Business and Globalization (December 5 to 6)**
- **Associate Professor Makino attends the Startup Conference 2016 at Neko University, Yokohama (March 14 to 15)**
- **Participation in EDGE symposium and selected universities meeting (March 15)**
- **Specially-appointed Professor Yamada attends the Startup Conference 2016 at Neko University, Yokohama (March 14 to 15)**
- **Participation in EDGE symposium and selected universities meeting (March 15)**
- **Discussion meeting with the part-time lecturers (March 16)**
- **Specially-appointed Professor Yamada attends the Startup Conference 2016 at Neko University, Yokohama (March 14 to 15)**
Details of Activities

Education

Lectures (KIKAN education, KIKAN education for graduate schools)
QREC Lectures (28 lectures, 2 out of 28 lectures are new: 10 graduate school subjects, 9 in the first semester and 17 in the second semester, in addition to 1 lecture presented twice during both first and second semester and 2 lectures presented year-round)

Education-Related Projects
QREC held Noma Research Institute (NRI) / QREC Consulting Workshop and QREC Business Creation Camp 2015 with Deloitte Tohmatsu Consulting Co., Ltd. a two-day workshop designed to provide students with practical experience in consulting.

For the first time QREC conducted the Student Initiative Program “Ika Battle” twice during the 2013 academic year, kibesha having held it just once a year. This project aims to guide students towards the realization of their own initiatives. The “Jump Out Challenge” (Q & C) project—on which students participate in domestic business competitions—and the “Global Challenge and Creation” (GCGC) project—for which students participate in international business competitions—were also conducted, with a UCCEP student project winning a Best Technology Award Partnership, as in previous years, the “Challenge and Creation” (KIC), “Academic Challenge” (AID), and “Startup Simulation Program at the Kyushu University” (KUSP) were also conducted.

Taking Education into the Digital Age

Remote Learning Implemented
Kyushu University offers a comprehensive study support system for the convenience of all students and to ensure that they have opportunities to take classes. Using this system, QREC has created an online video that is broadcast simultaneously to the four campuses in Hakozaki (Hioka, Ohiku, and Chiku), making it possible for all subjects to be implemented in distance education.

New Educational Methodologies

Workshop Format
The majority of QREC courses do not follow the format of “mastery” received in the instructor’s lectures, but rather incorporate lectures in a participatory format where students take an active role in discussing and participating in courses, and in the course of their studies, they are encouraged to think and act for themselves.

Lectures by Businesspersons
QREC offers many lectures by businesspeople who are active in the real world (as well as entrepreneurs, people who are active in the industry-government-University front). In addition to classroom lectures, these invited businesspeople tell students about their experience in running businesses or otherwise give lectures in real life. This is done to advance student understanding.

Case Studies
In order to study events that have actually occurred and detailed models that make up a real world, a basic course entitled “Introduction to Entrepreneurship” and a practical course titled “Micro L I T and Entrepreneurship Management” that these two subjects are offered. Some of the case studies are presented in English.

Design Thinking and Incorporation
“Design thinking” is an approach that takes the users’ perspective, discovers issues as a team, considers solutions, and creates prototypes for visualizing proposals that have been incorporated into many education programs. We incorporated on-site workshops using QREC subjects. (Applicable courses in the 2013 academic year: Design Thinking Strategic Design Thinking: Entrepreneurship in Designing new value for people of BOP people, Design Innovation FBL Program collaborated with industry)

Project-Based Learning (PBL)
QREC is acquiring the number of courses that use the PBL approach for learning through doing in small groups. This method is used in lectures that are placed on the practice-oriented side of the QREC curriculum as well as in a variety of educational programs so that students will not only receive lecture content as knowledge, but will learn how to make ideas and technologies into actual forms as specific values in the real world. (Applicable courses in the 2013 academic year: Entrepreneurship in Designing new value for BOP people Global FBL Program, Design Innovation FBL Program collaborated with industry: Design Thinking Strategic Design Thinking)

Incorporation of LEGO Serious Play™
LEGO Serious Play™, which has been gaining attention as an important tool in business for organizations to develop teams and for individuals to develop their careers, has been incorporated into classes. (Applicable courses in the 2013 academic year: Career Design, Technology Marketing (English))

Education Evaluation
QREC has adopted a number of educational evaluation methods in order to improve the quality of its lectures.

Assessment Meeting Held for Educational Evaluation by Students
In order to obtain the opinions and evaluations of students that cannot be covered by questionnaires alone, student assessment meetings have been held to date annually.

In 2013 academic year, a meeting was held in July 2015 with a total of five students selected in QREC courses, providing much information and various useful opinions.

(For details on each item, please see page 41 onwards)
Details of Activities

Research

Faculty Research Activities

Hirofumi Taniguchi
Professor
Fields of specialization: Public policy, Industry-University Cooperation, Regional Policy

- "Personal Development for Regional Academic Public Governance Reform." Kamuro City Policy Vol.2, August 2015, Kamuro City Policy Institute

Newspaper Articles
- "Regional Revitalization: The View from the Regions (Volume 1) — The Importance of Public-Private and Regional Cooperation" Nikon Keizai Shinbun Keizai Kenkyuu, Submitted May 8, 2015

Conference Presentations
- "Development Bank of Japan PPP-FPD College Third Period 5th session January 2014

Singo Igarashi
Associate Professor
Fields of specialization: Entrepreneurship, Management Strategy Theory

Conference Presentations
- The Japan Academic Society for Ventures and EntrepriseJBUS National Conference Entrepreneurship Education and Cultivates of Innovative Personnel: Diverivatization of the career path of post-doctoral researchers and doctoral students

Books (co-authored)

Toru Tanigawa
Specialty-Assigned Professor
Fields of specialization: Regional Economic Policy, Entrepreneurship, Industry-University Cooperation


Major presentations, etc.
- "Kyoto University-EDG Program Medical Kern Oil International Symposium Lecture in Fukuoka "Making Kyoto University a hub for entrepreneurs to challenge the world" - The Kyoto University-EDG Program" June 2015
- "Kyushu University, Science, Technology, and Business Innovation Research Center Lecture in Fukuoka "Innovation from Robert T. Hung Entrepreneurship Centre of Kyoto University (QuECC). June 2015
- "Kyoto University-University of Sydney Interdepartmental Cooperative Entrepreneurship Communication Symposium Lecture in Fukuoka "Challenge in Bangalore of Robert T. Hung Entrepreneurship Centre of Kyoto University (QuECC). September 2015

Emi Makino
Associate Professor
Fields of specialization: Management Strategy Theory, Organizational Development, Social Systems Theory, Flow Theory, Entrepreneur Education

Publications
Organizational Strategies

During the 2015 academic year too, QREC is attempting to collaborate with organizations within and outside the University in both teaching and events, thereby enriching the curricula provided.

Cooperative Efforts with Japanese/Overseas Organizations

We have built a complementary relationship for utilizing external resources not available in the university and implemented external know-how. We have also expanded our sphere of activity by broadening our network and our collaborations with non-university organizations and we are working on even greater collaborations that will secure opportunities for our students to acquire experience outside the university, outside of Kyushu, and overseas.

Conclusion of Collaboration agreement with the University of Dhaka

An academic exchange agreement was concluded between the University of Dhaka’s Faculty of Business Studies, Kyushu University’s Faculty of Information Science and Electrical Engineering, Graduate School of Information Science and Electrical Engineering, and QREC. During the 2015 academic year an inter-departmental symposium for researcher interaction entitled “Creating Shared Values through Social Innovations in Developing Countries – Role of ICT, Entrepreneurship and Youth” was held as was the student-exchange-based QREC course ‘Entrepreneurship in Designing New Value for BOP People’.

Conclusion of Collaboration agreement with Aalto University (ongoing)

Symposium held jointly with and interns dispatched to ESG JAPAN (Entrepreneur Group for Growing JAPAN) (Mitsubishi Estate Co., Ltd) (ongoing)

Collaboration with Sunbridge International (USA) (ongoing)

Lectures conducted jointly with IDEO Tokyo (ongoing)

Business Creation Camp with Debitos Tohoku Consulting Co., Ltd. (ongoing)

Join talent development consulting program with Nomura Research Institute (NRI) based on design thinking (ongoing)

Collaboration with Fukuoka City Innovation Studio Fukuoka (ongoing)

Currently in negotiations to establish collaborative relationships with the Chalmers University of Technology.

[Cooperative Efforts with Kyushu University Departments]

QREC’s know-how and educational efforts (entrepreneurship, management, etc) was utilized by other departments within the university.

[Ongoing Collaboration]

- Collaboration with the Graduate School of Design (Department of Design Strategy, etc.)
- Collaboration with School of Engineering and Graduate School of Engineering (Applied Chemistry)

[Ongoing Program]

QREC continued to expand the EDGE program 2015 academic year.

Operation

[Public Relations and Information Dissemination]

QREC engaged in the following activities for the purposes of public information and information dissemination as well as to improve and spread services for students and other users:

- Operations and improvement of the QREC website
- Expansion of website content and modification of user interface
- Improvement of advertising on the English-language website version
- QREC use of Facebook
- Update and distribution of a QREC brochure in English and Japanese
- Update and distribution of educational programs

In order to communicate activity with international students, we have started providing the course guide in English from the 2016 academic year (new)

- Advertising of QREC educational content
- Revisions giving consideration to making content easy for students to understand


- Public information on QREC activities in Japanese and English

[Increasing Organizational Efficiency and Improving the Educational Environment]

The Internet (Cynbroken) installed in the 2011 academic year. In the 2014 academic year, office 1 (Cynbroken) was upgraded. In the 2015 academic year, we established the new Silicon Valley Room with the move to the Ito Campus. We inaugurated the QREC Studio equipped with digital devices. Three Windows laptops added for tuition.

[Administration and Management of Incubation Facilities]

Space was rented for laboratories (three rooms) on the university campus and for venture capital firms created at the university (two rooms). Activities are suspended from the second semester of the 2015 academic year with the move to the Ito Campus.
Organizational Strategies

Kyushu University’s Global Innovation Talent Development Ecosystem Creation Program, proposed by Robert T. Hsia on Entrepreneurship Center (QREC) has been selected as an EDGE (Easing Development of Global Entrepreneur) Program, which falls under the 2014 Science and Technology Human Resources Development Aid Program run by the Ministry of Education, Culture, Sports, Science, and Technology (MEXT). Also QREC continued to expand the EDGE program 2015 academic year.

Innovation Talent Development Ecosystem Creation Project

- Collaborative joint PBL training program with Aalto University (Finland) (Global PBL Program)
  - The program is conducted through international collaboration with Aalto University in Finland using a PBL format. Courses are held at the same time and use the same themes as Aalto University, and students use Design Thinking methods to propose potential solutions to social issues in an experimental approach. By discussing and resolving the same issues students observed, even though their locations differ, the program aims to improve participants’ social understanding, entrepreneurial awareness, and problem-solving skills. Workshops including lectures were presented in English. Kyushu University instructors are built on several weekends over a month of month. At the end of the program, evaluations are made in a public presentation held in Tokyo. Under the basic theme of “Rebuilding Society,” students propose plans for creating a sustainable and desirable society for the future of the next generation (around 2046).
  - In the 2015 academic year, 16 students from throughout Kyushu University (including international students) participated in the program under the theme of “Rebuilding Aging Issues.” Participants were divided into four groups, each group developed new business proposals. The plans presented at Aalto University were excellent, while at the same time the students exhibited remarkable depth of thinking in preparing their final plans and the tremendous significance of this program as an educational project was recognized.

- Industry-academia collaborative PBL innovation talent development program (Design Innovation PBL Program Collaborated with Industry)
  - Aiming to achieve futuristic themes related to industry, this practical academia-industry program draws students from a wide range of fields and companies through the participation of corporations with the objective of creating concrete products using design thinking methods.
  - In the 2015 academic year, under the theme of “Creative Spaces,” a total of 25 participants (20 Kyushu University students and one Kyushu Institute of Technology student, as well as two employees from cooperative partner Toyota Motor Kyushu and two employees from new partner Kyushu Railway Company) were divided into four groups, and workshops and fieldwork were carried out over five times (total of 75 hours) on weekends between October 2015 and January 2016.

- Social business education program for emerging markets (BOP: Base of the Pyramid) (Entrepreneurship in Designing New Value for BOP People)
  - Courses in this course are based on onsite fieldwork using design thinking methods with the aim of creating services and projects for resolving issues faced by developing countries (BOP countries). The objective of the course is to enable students to gain an understanding of entrepreneurship, 2015. Design Thinking and social issues.

- Collaborative practical design thinking training program with IDEO (Strategic Design Thinking)
  - This program is led by workshops presented by invited lecturers who are staff of the American design consulting firm IDEO, which was the first firm in the world to advocate the concept of design thinking. Design Thinking is a human-centered approach to innovation that applies designer sensibilities and methods and is defined as an approach that traces (1) human needs, (2) technology for realization, and (3) business. This approach enables people outside the design field to not only utilize existing designer sensibilities and methods but also consider how to uncover and resolve “manageable” social issues.

- Collaborative innovation education program with Fukuoka City (QREC and Faculty of Design)
  - “Commercial Districts”—one of the topics examined in QREC’s “Design Thinking” course—was also selected as a project theme.

- Overseas students business plan competition promotion program; Offered as a student project (QREC)

[Details of the EDGE Program]

- Education programs
  - Nine education programs have been developed that incorporate the distinctive features of the eight participating university departments.
  - Collaborative joint PBL training program with Aalto University (Finland) (QREC and Faculty of Design)
  - Medical innovation talent development program (Faculty of Medical Sciences, University Hospital, and CMAS)
  - Collaborative online Fab Academy program with MIT (USA) (Faculty of Design)
  - Industry-academia collaborative PBL innovation talent development program (QREC and Faculty of Engineering)
  - Science students and QBS collaborative education program for commercializing technology (QBS)
  - Collaborative innovation education program with Fukuoka City (QREC and Faculty of Design)
  - Social business education program for emerging markets (BOP: Base of the Pyramid) (QREC and Faculty of Information Science and Electrical Engineering)
  - Collaborative practical design thinking training program with IDEO (QREC and Faculty of Design)
  - Overseas students business plan competition promotion program; Offered as a student project (QREC)

- Supporting activities
  - Regional collaboration
  - Support
  - Preparation of a global entrepreneur development environment

[Subjects Introduced in the 2015 Academic Year under the EDGE Program]

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- Overseas students business plan competition promotion program; Offered as a student project (QREC)
  - As part of GEC, students participated in the 2013 TECO Green Tech Contest held in Taiwan and the Startup Weekend Lewis 2015 USA. In the 2015 TECO Green Tech Contest, Kyushu University won the Best Technology Award.

Refer to p. 38 for details.
QREC Curriculum System

Integration
Education students endeavor to actually put what they have learned into practice based on their knowledge and understanding of methodology.

Knowledge/Tool
Education designed to provide knowledge for achieving ideas for resolving issues.

Organization/Group Dynamics
Students learn how to build organization/team for carrying out projects.

Finance
Students learn methods for procuring funds.

Marketing/Strategy
Students learn how to understand market generation and business strategies.

Idea Generation
Students receive training in "idea generation" methods for resolving issues.

Motivation
Education designed to make students realize the important of understanding social "issues" and "taking action" to make their own dreams come true.

All subjects in the curriculum are available to all Kyushu University students to take as their minor. The curriculum is designed to enable students to study entrepreneurship in stages, from basics through application to practice.
Course Data: Number of Students

The cumulative number of students attending lectures

- Auditing students and working adults
- Students who are formally enrolled in classes (Students are shown in blue)
- The top 2 parts indicate the increase of the number of students of every year.

**Breakdown**

[A Look at the Number of Undergraduate and Graduate Students in the Program]

- **446** students
- **585** Undergraduate students
- **139** Graduate students

**Number of Students by Gender**

- **423** Men
- **562** Women

**Number of Overseas Students**

- **530** International students
- **55** Overseas students

**Number of Students for Each Lecture Course**

<table>
<thead>
<tr>
<th>Course</th>
<th>Students</th>
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<tr>
<td>Introduction to Entrepreneurship</td>
<td>182</td>
</tr>
<tr>
<td>Idea Lab I</td>
<td>84</td>
</tr>
<tr>
<td>Entrepreneurship Management I</td>
<td>26</td>
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<tr>
<td>Entrepreneurship Management II</td>
<td>11</td>
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<tr>
<td>Career Design</td>
<td>41</td>
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<tr>
<td>Design Thinking</td>
<td>60</td>
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<tr>
<td>Entrepreneurship Seminar</td>
<td>52</td>
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<tr>
<td>Robert T. Huang: Entrepreneurship Program</td>
<td>18</td>
</tr>
<tr>
<td>Entrepreneurship Finance I</td>
<td>39</td>
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<tr>
<td>Entrepreneurship Marketing</td>
<td>14</td>
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<tr>
<td>Innovation Management</td>
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<tr>
<td>Core Competence Management</td>
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</tr>
<tr>
<td>Technology Marketing (English)</td>
<td>16</td>
</tr>
<tr>
<td>Management of Research and Technology</td>
<td>4</td>
</tr>
<tr>
<td>New Business Creation</td>
<td>9</td>
</tr>
<tr>
<td>Entrepreneurship Organization</td>
<td>7</td>
</tr>
<tr>
<td>Entrepreneurship Finance II</td>
<td>9</td>
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<tr>
<td>Idea Lab II</td>
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<td>Strategic Design Thinking</td>
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<tr>
<td>High-Tech Entrepreneurship</td>
<td>12</td>
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<td>Global Seminar (English)</td>
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<tr>
<td>Corporate Entrepreneurship</td>
<td>17</td>
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<td>Practical Training Program for Regional Management</td>
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<td>QREC Internship</td>
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<td>Entrepreneurship in Designing new value for BOP people</td>
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<tr>
<td>Global PBL Program</td>
<td>11</td>
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<tr>
<td>Design Innovation PBL Program collaborated with Industry</td>
<td>24</td>
</tr>
</tbody>
</table>

**Breakdown [Undergraduates/Graduate students]**

[Number of Students Taking Classes By Grade]

- **Undergraduates**
  - 1st grade: 177
  - 2nd grade: 101
  - 3rd grade: 36
  - 4th grade: 37
  - 5th grade: 2
  - 6th grade: 1

- **Graduate students**
  - First year master’s program: 77
  - Second year master’s program: 46
  - First year doctoral program: 7
  - Second year doctoral program: 3
  - Third year doctoral program: 2

**Number of Students Taking Classes By Discipline**

- **139** students
- **585** Social Science and Humanities
- **963** Science, Technology, Engineering, and Mathematics
- **602** Humanities and Sciences Fusion
- **88** School of Dental Medicine
- **26** School of Agriculture
- **25** School of Education
- **10** School of Design
- **89** School of Engineering
- **197** School of Pharmaceutical Sciences
### Basics [8Courses]

<table>
<thead>
<tr>
<th>Course name</th>
<th>Instructor name</th>
<th>Main classroom</th>
<th>Main Course</th>
<th>Course</th>
<th>Overview</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Entrepreneurship</td>
<td>Shingo Igarashi (GREC)</td>
<td>No Campus</td>
<td>1st semester</td>
<td>First half</td>
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<tr>
<td>Idea Lab I</td>
<td>Murugia Takaba (Facility of Commerce)</td>
<td>No Campus</td>
<td>2nd semester</td>
<td>First half</td>
<td>Saturdays periods 3 &amp; 4 consecutive</td>
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</tr>
<tr>
<td>Entrepreneurship Management I</td>
<td>Shingo Igarashi (GREC)</td>
<td>Hakozaki Campus</td>
<td>2nd semester</td>
<td>Second half</td>
<td>Saturdays periods 3 &amp; 4 consecutive</td>
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</tr>
<tr>
<td>Entrepreneurship Management II</td>
<td>Shingo Igarashi (GREC)</td>
<td>No Campus</td>
<td>2nd semester</td>
<td>Second half</td>
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</tr>
<tr>
<td>Career Design</td>
<td>Hiroshi Aoyagi (Faculty of Management)</td>
<td>No Campus</td>
<td>3rd semester</td>
<td>First half</td>
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<td>Design Thinking</td>
<td>Yousuke Hira (Faculty of Design)</td>
<td>Hakozaki Campus</td>
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<td>Entrepreneurship Seminar</td>
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<td>Entrepreneurship Finance I</td>
<td>Prof. Tatsuya Take (Facility of Management)</td>
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<td>Entrepreneurship Marketing</td>
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<td>Hakozaki Campus</td>
<td>5th semester</td>
<td>First half</td>
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<td>Innovation Management</td>
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<td>6th semester</td>
<td>First half</td>
<td>Fridays periods 4 &amp; 5 consecutive</td>
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<td>EI Shu (Faculty of Economics)</td>
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<td>Kei Makino (Education Center for Global Leaders in Molecular Systems for Science)</td>
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<td>8th semester</td>
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### Application [8Courses]

<table>
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<tr>
<th>Course name</th>
<th>Instructor name</th>
<th>Main classroom</th>
<th>Main Course</th>
<th>Course</th>
<th>Overview</th>
<th>Course</th>
</tr>
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<tbody>
<tr>
<td>Management of Research and Technology</td>
<td>Tony Harada (Art, Science and Technology Center for Cooperative Research)</td>
<td>Hakozaki Campus</td>
<td>8th semester</td>
<td>First half</td>
<td>Fridays periods 4 &amp; 5 consecutive</td>
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<tr>
<td>New Business Creation</td>
<td>Shingo Igarashi (GREC)</td>
<td>Hakozaki Campus</td>
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<td>Hakozaki Campus</td>
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Lecture Highlights

Practical Training Program for Regional Management

In a context of declining populations and a rapidly aging society, declining international competitiveness, and other severe environmental conditions, local regions and communities must formulate their own futures without relying on central government in order to sustain local dynamic power and search out ways to new growth. It is important for them to possess the capabilities in themselves to plan their own measures to realize these aims.

This course seeks to develop people with strong planning and implementation ability who can contribute to solving regional issues. Participants work with professionals from outside the university to discover solutions to social issues, experiencing the processes of developing a project.

Every year, the course takes up current hot topics and turns them over to thoroughly exploring group debates from a variety of angles. To date, these debates have covered such topics as growth strategies, tourism, global human resource development, transportation, energy, crisis management and emergency countermeasures, agriculture, forestry, local resources, health care and long term care, local communities in an aged society, local government over broader union, and the "Kyushu-Pu" concept for governing Kyushu as a single administrative area.

In the 2015 academic year, the course addressed the shared theme titled “What are the conditions for successful regional revitalization projects?” Proposals were considered by separate groups for industrial cluster formation, tourism branding, public facilities management, open data, and a Japanese version of CCBC. On the last day of the course, the groups presented their findings to policymakers. Bringing business approaches to bear on social issues and policy formation using business know-how in very innovative work. We aim to develop students who, in addition to planning skills, have the practical ability and passion of social entrepreneurs.

Idea Lab II

In Idea Lab I, students learn idea generation methods. At Opportunity Recognition, students learn how to discover opportunities offered for changes in the social environment. In this course, Idea Lab II, students conduct exercises on just how far they can create ideas that have the potential to solve specific social issues, based on the two courses described above. Continuing on from Idea Lab I we conducted group work-based idea generation, but we also placed an emphasis on seeking to improve skills for bringing out the very best of the participants’ strengths.

In the 2015 academic year, we invited Mr. Yui Hataguchi from Fukushu Direct Council (FDC) which runs Innovation Studio Fukushu, and Ms. Tomayo Komuro who was involved for two years in industrial development in Ethiopia as a member of the JICA Japan Overseas Cooperation Volunteers to discuss in detail "revitalization of Fukushu" and "industrial development in Ethiopia" in detail.

Strategic Design Thinking

In this course, lectures take the format of workshops presented by guest instructors from IDEO, the U.S. design consulting firm that first introduced "design thinking". As a human-centered approach to innovation, design thinking applies designer sensibility and methods and is defined as something that combines (1) human needs, (2) skills for realizing ideas, and (3) business. Design thinking enables the sensibility and methods of designers to be used by people other than those in the design field and can also be used to identify "formless" social issues and think up solutions.

For the 2015 academic year, under the theme of "Creating Innovative Experiences: Business Designs for Fukushu’s Elderly Population in 2030," students investigated ways and means to enable active elderly people to achieve active futures. Students were divided into six teams, each with a separate theme—"Money," "Health," "Community," "Learning," "Working style," and "Fashion". Using the design thinking process, students identified issues and then proposed solutions to these issues and business models.

Technology Marketing (English)

Emphasizing active learning, QREC has been using marketing simulation games in the "Technology Marketing" course for five years now.

In the 2015 academic year, the course was offered in English again as in the previous year. International students from Asia and Europe and Japanese students desiring to polish their English language skills were divided into four teams, competing for academic results. One study attainment target was for students to learn through hands-on experience that, no matter how outstanding a product’s functions are, the product will not sell if the marketing is poor.

The course uses "MarketSim", a strategic marketing simulation game used by business schools around the world in which players sell fictitious technology products on the market and compete for share prices. The games repeat the decision-making process of companies allocating the marketing budget for the year in question according to their respective strategies based on market survey data and product sales trends. At the point where the decision has been submitted for the 5th (final) round, there is a group presentation where each team reviews the game overall.
Core Competence Management
Instructor: Megumi Takata (Faculty of Economics)

Students in this course focus on the conditions for a business to achieve high levels of stable, continuous growth, and particularly on the core capabilities and resources that serve as a wellspring of competitive advantage from the perspective of management of technology (MOT) that other companies cannot imitate, and learn methods for forming and making use of these conditions. Specifically, the course takes up such various topics as core technologies, intellectual property, incorporating external resources (alliances, industry-university collaboration), agility and fast mover advantages, technology trends, competitive advantage as seen by investors, and so on.

For the lectures in the 2015 academic year, we invited external lecturers from consulting firms, major corporations and financial institutions, who revealed the source of their competitive advantage through discussions. The procedure in these lectures was for students to submit reports on the topic in advance, which they brought on the day. After a group discussion, they presented their reports to the lecturer, which the lecturer critiqued, leading to further discussion.

Innovation Management
Instructor: Ei Shiozawa (Faculty of Economics)

This lecture introduces the processes of technology formation from a business administration perspective and the basic theory of competition in technology, and students learn about conceptual approaches and frameworks of technology and market. How do corporations produce innovation, how do they tie it in with management results, and what needs to be done to accomplish this? Students explore these concerning answers to three practical questions by studying the characteristics of the phenomenon of innovation and its influence on corporate competition, and what from corporate strategy should take for the process of disseminating innovation. The aim is for students to learn the fundamental concepts of business administration involved and much as understanding through discussion of specific cases.

In the 2015 academic year, the course focused mainly on high-tech industry, and lectures covered the theory of the chain in disseminating technology as well as the creation of business models to overcome that chain. The course was taught through a combination of lectures, case discussions, team projects and other methods, while creatively building a dialogue with students.

Management of Research and Technology
Instructor: Yoichiro Harada
(Art, Science and Technology Center for Cooperative Research)

The format for this course changed significantly from the small group format used by specially-appointed Professor Tanigawa up until the 2014 academic year. Previously, classes took the form of students listening to lectures presented by guest lecturers then participating in Q&A sessions, thereby deepening their understanding. However, the new format, which was introduced in the 2015 academic year, takes a tailor-made active learning approach, with students selecting their own research themes and pursuing research individually on their respective topics.

Lectures systematically explained the research process, from selecting topics/theses forming the basis of the research, to generating ideas and considering methods for resolving the selected topic/items, conducting actual experiments, and deriving research conclusions from the experimental/investigative results. In addition to providing the necessary knowledge and information, lectures provided a forum for discussions amongst students, enabling them to deepen their understanding of research topics from multiple angles. Lectures also included explanations and discussions regarding the generation of intellectual property and business from research results. In the final lectures, students gave presentations on their respective research topics, providing them with practical experience in conveying the results they obtained as effectively as possible to others. In this way, this course aimed to cultivate students’ principles in outstanding future researchers by enabling them to deepen their own research from various perspectives.

Design Innovation PBL Program collaborated with Industry

Instructor: Toru Tanigawa (CREC)

Aiming to achieve thematic related to industry, this practical academic-industry program draws students from a wide range of fields and companies through the participation of corporations with the objective of creating concrete products using design thinking methods.

In the 2015 academic year, under the theme of “Creative Spaces,” a total of 25 participants (15 Kyoto University students and one Kyushu Institute of Technology student, as well as two employees from cooperative partner Toyota Motor Kyushu and two employees from new partner Kyushu Railway Company) were divided into four groups, and workshops and fieldwork were carried out five times (total of 7.5 hours) on weekends between October 2015 and January 2016. Beginning with user mapping in Fukuoka City, the program included classroom workshops, prototype building using digital equipment, and presentation of business plans. Both students and working adults found that the program provided opportunities that could not be experienced in everyday life and was highly stimulating. Businesses also praised the program, saying that the experience of creating innovation had been extremely effective in terms of human resources training for employees who tend to bury themselves in their everyday work duties.
11 Comments from QREC students

I got a Completion Certificate!

4th year, Department of Industrial Design School of Design
Kentaro Morita

The good point about QREC is the curriculum for idea generation in society, which students can continue taking from when they first start studying, until they graduate. I was able to take various lectures starting with a basic course such as what entrepreneurship is in my first year, to the course on creating business models and an internship in my final year. As a result, I was able to obtain a Completion Certificate and gain confidence for making my start in life.

I was able to continue taking the courses in the curriculum because the classes at QREC always made me feel like “Next I want to study this.” By taking classes at QREC as studies in my major advanced, the knowledge from both connected up and I felt as though the outcomes from my study increased many times over.

Also, students from both science and the humanities, undergrad, postgrad and business school students are all mixed in together. Sometimes the group work was carried out in English and this provided an excellent opportunity for me to demonstrate my own expertise.

At QREC, those who have completed the QREC courses can if they wish obtain a completion certificate.

Courses
- Introduction to Entrepreneurship
- Entrepreneurship Seminar I
- Entrepreneurship Seminar II
- Entrepreneurship Management I
- Entrepreneurship Management II
- Technology Marketing
- New Business Creation
- Corporate Entrepreneurship
- QSHOP
- Participation of Student Initiative Program
- G.C.&C2015 (Startup Weekend)
- QSHOP2015

4th year, Department of Economic Engineering School of Economics
Yuta Mochizuki

I took courses at QREC during my four years as an undergrad student. Broadly speaking, I was able to gain two things from attending QREC courses. First, I was able to increase my motivation to do something and I also learned a method for increasing motivation myself. I think that in many cases, success only comes from when you are overflowing with motivation. Second, I learned the foundation for thinking. In the system for activity as seen in the Lean Startup method, repetition of an inappropriate hypothesis and validation is important. As well as lectures in the QREC courses, there is always a practical component when group discussions are held. So I have steadily acquired my own way of thinking. These things I learned through QREC have been helpful in more places than I can say, such as community-based club activities and internships, as well as QSHOP activities. They are precious assets that will support me.

2nd year, Department of Mechanical and Aerospace Engineering School of Engineering
Hiroshi Odai

Many people may be wondering exactly what entrepreneurship is. The spirit of entrepreneurship is to take on risks in organizing and managing a new business but it doesn’t just refer to businesspeople, it can be used to refer to people who take on challenges, people who use change as an opportunity, and I think it is a quality necessary for people in various fields. Courses that systematically teach about it are rare and precious. When I was taking the various courses that QREC provides, I met with a lot of people and acquired various ways of thinking. I also had the chance to know more about myself, and think about what I wanted to do and how I wanted to live my life. QREC courses are just a catalyst and it is up to the student as to what they learn from the courses and how they transfer that knowledge to their actions.

Graduate Student, Social Technology Lab
Jecinta Kamau (Ms.)

I studies business and Information Technology in my undergraduate studies in Kenya and learnt that research (innovations) without industry application is not beneficial to the last mile. Hence, I was very excited to find Entrepreneurship courses as one of the electives in my Masters course in Intelligent information Sciences. I have had the chance to take five entrepreneurship courses offered by QREC, only one of which was in English. My Japanese skills is about that of a preschooler, maybe even worse. However, I could get much support from the lecturers in the QREC classes. I could rely on google to translate the notes to my preferred language English, and got to write reports in English.

"Technology Marketing" class was a really exciting class. The course content involved a management game and groups of students would compete every week by discussing and making management decisions virtually. 'Competitive Advantage in Business' and 'Entrepreneurship Organization' class was pretty interesting. Each class, we discussed cases of real companies. Guest Speakers from various reputable companies would share the company and their own experiences, a rare chance to learn about industry world while in academia. Global Seminar class presented a great chance to learn and experience a business lesson from guest speakers in one weekend! What was even more interesting in this class is the diversity of the class, we had students from PhD to undergraduate level, from various disciplines and from more than ten countries.

I am looking forward to improving my Japanese skills so I can enjoy more QREC classes.
**Student Initiative Program (S.I.P) / Speciality Programs**

Since the launch of C&C in 1997, QREC has been offering a number of Student Initiative Program. In the 2015 academic year, we established a series of programs and provided all of our students with many opportunities to display their progress.

In total, there were eight program offered as S.I.P. These programs were designed for students to participate by adding steps from the initial idea stage up to the specific implementation stage.

**S.I.P**
- Global Challenge and Creation (G.C&C)  | P.36
- Jump Out Challenge (J.O.C)  | P.36
- Idea Battle  | P.37

**Speciality Programs**
- Entrepreneurship seminar  | P.41
- Kyushu University Robert T. Huang Entrepreneurship Program II (QREP2.O)  | P.42

**Number of project participants**
**1,288** students

From 1997 to 2015, a total of 1,288 students participated.

**State of activities thus far**

In the 2015 academic year, students took on the following distinctive programs step by step, leading to receiving an award. (The years below are the years of participation.)

- **2015 Best Technology Award**
  - Global Challenge and Creation (G.C&C)
  - Wind Turbine Innovation Project

- **2015 President's Award**
  - Challenge and Creation (C&C)
  - Wind Turbine Innovation Project

- **2015 Excellence Award**
  - Challenge and Creation (C&C)
  - 8th President's Award

- **Science Class Project**
  - Challenge and Creation (C&C)
  - 11th Excellence Award

- **Glider Project**
  - Challenge and Creation (C&C)
  - 13th Excellence Award

- **Agrico / healthcare**
  - "Medicine / Nutrition", development of food products for diabetes prevention

- **Matching housing for the elderly and young people**

**Project-based learning**

**Achievements in social work**
- (commercialization, development into an actual business)

**Global Challenge and Creation (G.C&C)**

**Wind Turbine Innovation Project**

The minimization of effect from wind direction fluctuation on wind turbines
Student Initiative Program (S.I.P)

Global Challenge and Creation [G.C&C]
http://qree.kyushu-u.ac.jp/en/gcc

Challenging a world of globalization! Let us do battle with overseas students!!

Global Challenge and Creation (G.C&C) provides opportunities for students to compete directly with overseas students in student business plan competitions, and gives them experience in the process of turning their ideas into practical services and goods that will bring value to society. Its purpose is to foster and let students acquire a fully-fledged entrepreneurship that will achieve results in international society, and a sense of innovation and globalism. Plenty of chances are given for students to apply to take part in overseas business plan competitions and hackathons, and support is provided through mentoring and financial aid for air fares and so on.

(2015 participation project)
2015 TECO Green Tech Contest (Taiwan)
Date: August 28 (Tue.), 2015
Presentation theme: “The Minimization of effect from wind direction fluctuation on wind turbines” Representative: Joshua Reem (The 21st Century Program) and four other people

We have participated in this project two years in a row. In the 2013 academic year, we had our revenge and won the Best Technology Award (highest technical award). The award is for the product with the lowest cost and highest efficiency, and it is the highest award for technical aspects.

Startup Weekend Los Angeles 2015 (USA)
Date: September 26 (Fri.) - 27 (Sun.), 2015
Participants: Shinya Oshikawa (The 21st Century Program, 4th year) Taijun Hanada (School of Science, 1st year) Yuya Mashikuchi (School of Economics, 4th year)

Startup Weekend is an entrepreneur’s event held throughout the year around the world. It lasts for 24 hours from Friday evening to Sunday, and a new business is created based on ideas brought by participants. Now for the first time, Kyushu University students participated in the Startup Weekend West LA, pitching their ideas in English. Although none of their ideas were adopted, the educational smartphone application submitted on the team idea of the group in which one member participated won the Award for Particular Excellence.

Jump Out Challenge [J.O.C]
http://qree.kyushu-u.ac.jp/en/joc

Try your skill outside the university! Try out your idea plan!

The participation of Kyushu University students in off-campus domestic business contests and project contests is encouraged. The students are able to ascertain their own standing through the experience of interaction and matches outside the university, and this helps them to acquire the ability to look at things from a broad perspective and execute their projects. Students submitted one project in the 2015 academic year, but unfortunately it was not selected for participation in the contest.

Idea Battle
http://qree.kyushu-u.ac.jp/en/ideabattle

Show the world your creative and innovative ideas!!

Idea Battle is a new project that was first set up in the 2014 academic year. It enables the suggesting of more realistic projects by providing advice from mentors and preliminary research into the latest needs, competitive technologies and intellectual property rights regarding the creative but undefined ideas cradled by the students. When an idea is chosen for Idea Battle it is researched and investigated in detail for around three months, after which a highly accurate project plan is fleshed out and the team to execute the project assembled. Finally, a presentation of the project plan is given at the final presentation, and by sharing the plan with those assembled a chance is provided for brushing up the idea and this serves as a preparatory exercise before the next stage of action is taken. Within the QREE projects the Idea Battle is positioned as a preliminary stage for Challenges & Creation (C&C) and applying to take part in external business plan competitions and other such events. It is held twice a year, with a 1st Battle and 2nd Battle.

In the 1st Battle in the 2015 academic year, there were 13 proposals, of which five were adopted, and in the 2nd Battle, five out of six proposals were adopted.

(2015 Selected projects)
Idea Battle 1st Battle (Total 13 proposals)

<table>
<thead>
<tr>
<th>Theme</th>
<th>Scope of Themes</th>
<th>Name</th>
<th>Graduate/Undergraduate school</th>
<th>Major/Department</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information and communications technology (ICT)</td>
<td>Online SELF E-Learning Application Tool</td>
<td>Abu Baker Jabir</td>
<td>Graduate school of Engineering</td>
<td>Earth Resources Engineering</td>
<td>D1</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Adoption of innovation and technology</td>
<td>Ryosuke Koshi</td>
<td>School of Medicine</td>
<td>Medicine</td>
<td>B3</td>
</tr>
<tr>
<td>Other</td>
<td>Development of a disaster prevention technology by AI</td>
<td>Kiyu Nohira</td>
<td>School of Design</td>
<td>Disaster Prevention Design</td>
<td>B1</td>
</tr>
<tr>
<td>Other</td>
<td>Enhancement of the disaster prevention technology by AI</td>
<td>Takashi Ueno</td>
<td>School of Science</td>
<td>Department of Earth and Planetary Sciences</td>
<td>B3</td>
</tr>
<tr>
<td>Other</td>
<td>Development of an AI disaster prevention technology</td>
<td>Motzoyaki Satoh</td>
<td>The 21st Century Program</td>
<td></td>
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</tbody>
</table>

Idea Battle 2nd Battle (Total six proposals)

<table>
<thead>
<tr>
<th>Theme</th>
<th>Scope of Themes</th>
<th>Name</th>
<th>Graduate/Undergraduate school</th>
<th>Major/Department</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information and communications technology (ICT)</td>
<td>Pick-U</td>
<td>Takanori Yoshikawa</td>
<td>The 21st Century Program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>Revitalization of the domestic wood market</td>
<td>Masako Isaka</td>
<td>The 21st Century Program</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>Development of the sustainable food market</td>
<td>Masaki Yamamoto</td>
<td>School of Medicine</td>
<td>Medicine</td>
<td>B2</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Agricultural technology to design a new future society</td>
<td>Yuriro Harada</td>
<td>School of Dentistry</td>
<td>Department of Social Sciences</td>
<td>B1</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Defining explicit (food) culture of the global community</td>
<td>Jotaro Kojima</td>
<td>School of Engineering</td>
<td>Department of Agricultural Engineering</td>
<td>D2</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Protecting the elderly and young people</td>
<td>Seiji Asakawa</td>
<td>School of Engineering</td>
<td>Department of Agricultural Engineering</td>
<td>B2</td>
</tr>
</tbody>
</table>
A university-wide effort to promote one-year projects aided by grants from the President’s discretionary budget.

With the idea of producing a creative, challenging environment, C&C was begun in 1997 as an annual university-wide effort designed to provide assistance to unique ideas and research projects planned by Kyushu University students. The program now epitomizes Kyushu University’s unique approach to education. Ideas and study projects proposed by individual students and groups of students are evaluated for novelty and societal impact, with eight teams being selected to receive up to 300,000 yen to support their activities to make the project goals. About one year later, the teams present reports on their projects and are evaluated, with the honors going to the winning team.

There were 27 proposals in the 2015 academic year, of which eight were adopted. According to the judges of the final presentation, the level is improving every year, and there are projects that can be developed into businesses.

Challenge and Creation (C&C) 2015 selected projects

President’s Award

The Development and Popularization of an Artificial Bone Fabrication Network System through the Application of Computers and 3D Printers in Aovelar Bone Restoration Care

Medical Fabrication Laboratory

Representative: Masayuki Yamasaki
Graduate School of Engineering Science

 timeframe: Category: Business creation

Excellence Award

Wind Turbine Innovation Project

Representative: Yuji Nishida
Graduate School of Ocean Engineering

 timeframe: Category: Open theme

Other selected projects

[Project name] [Representative] [Graduate school] [Major Department] [Year] [Category]

Development of an interactive mathematical puzzle education simulation
Yuki Yoshizawa
School of Science
Department of Biology
2015 Open theme

Project for improving women’s income with technology
Keiko Ootsubo
Graduate School of Information Systems
Department of Business Information Studies
2015 Open theme

Development of an algae-based application for utilizing ocean waste from the ocean:\ examining the effects of the application
Takamori Takeuchi
Graduate School of Biotechnology
Department of Applied Science for Environmental and Bioresources
2015 Open theme

Launch of a design brand using stereotyping as a concept
Asuka Araki
Graduate School of Design
Department of Design Graphe
2015 Business creation

Academic Challenge [AC]

A program supported with research grants for students to learn research management.

Academic Challenge (AC) is a research promotion program aimed at graduate students enrolled at Kyushu University. Students plan out their own research projects with any necessary capital provided by the university and students carrying out the actual research. The aim of the program is for students to gain valuable research management experience through this sequence of hands-on exercises. In order to promote promising research to feel future innovation, students are afforded the opportunity to display their creativity and flexibility by facing off against each other in the pursuit of academic research. A maximum grant of 500,000 yen is provided for each project. Launched in the 2008 academic year, there were 32 applicants with eight projects selected in the 2015 academic year. Students from fields such as the Graduate School of Bioreources and Environmental Sciences and Graduate School of Science headed by the Graduate School of Pharmaceutical Sciences were selected and conducted research.

2015 Schedule

April 4 / Applications begin to be accepted
June 22 (Mon) / Academic Challenge review board convened
June 26 (Fri) / Briefing on procedural matters
October 15 (Thur) / Mid-term presentation
February 16, 2016 (Tue) / Final presentation
June 21 (Tue) / President’s Award Ceremony

[2015 Selected projects]

Eighth Academic Challenge 2015 Selections

<table>
<thead>
<tr>
<th>Theme</th>
<th>Field</th>
<th>Graduate School</th>
<th>Main Department</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Acceleration of the growth of regenerative hectors using Bartholomeus of epidermal growth and the next 20 years</td>
<td>Science</td>
<td>School of Science</td>
<td>Department of Cell Biology</td>
<td>D4</td>
</tr>
<tr>
<td>2. Innovation of technology for harvesting bioactivating film for achieving the next 20 years</td>
<td>Engineering</td>
<td>School of Engineering</td>
<td>Department of Electrical and Electronic Engineering</td>
<td>M2</td>
</tr>
<tr>
<td>3. The construction of Baker’s yeast fermentation</td>
<td>Life Sciences</td>
<td>Graduate School of Life Sciences</td>
<td>Department of Microbiology</td>
<td>M3</td>
</tr>
<tr>
<td>4. Contribution to the large size balloon using low X-ray spectrometer over a prismatic design</td>
<td>Science</td>
<td>School of Science and Engineering</td>
<td>Department of Environmental Sciences</td>
<td>D3</td>
</tr>
<tr>
<td>5. Research on innovation of technology for achieving heat-activated devices</td>
<td>Science</td>
<td>School of Science and Engineering</td>
<td>Department of Environmental Sciences</td>
<td>M1</td>
</tr>
<tr>
<td>6. Generation of intact Cooper pairs using multi-terminal spin injection and its applications</td>
<td>Science</td>
<td>School of Science and Engineering</td>
<td>Department of Environmental Sciences</td>
<td>M3</td>
</tr>
<tr>
<td>7. Inorganic study of local decision and clarification of the former phenomenon that the others</td>
<td>Science</td>
<td>School of Science and Engineering</td>
<td>Department of Environmental Sciences</td>
<td>M3</td>
</tr>
</tbody>
</table>
Student Initiative Program (S.I.P)

Startup Simulation program at the Kyushu University [QSHOP]
http://qec.kyushu-u.ac.jp/en/qshop

A program for learning the fundamentals of running a company and gaining hands-on experience of operating a company

QSHOP provides an opportunity for students to learn about starting businesses and management by means of the Kyushu Festival. As a hands-on experience of the process for starting a business using real cash, QSHOP is a project-based learning (PBL) program.

Setting up a simulated store at the Kyushu Festival provides the opportunity to start a business. Students become “entrepreneurs,” establish a company organization, learn the fundamentals of business management, and experience hands-on operation of company management through the program. Not only do they set up a stall and conduct sales activities, they also received support from practitioners such as venture capitalists and certified public accountants. They also release a business plan, and hold investment negotiations, audits, and a general shareholders meeting. The objective of the program is for each team of entrepreneurs to maximize its earning per share (EPS), return on equity (ROE), and profit per employee. In the process of determining the final rankings, they also learn about the activities of the other teams that are their business competitors. Each year the teams change, but the program teaches each team how to implement elaborate business ideas, enabling them to come to grips with sales and profit in the heat of competition.

2015 Status of QSHOP Implementation

April ~ mid May: Operation project recruitment of student members
May ~ June: Invitation to organizations to participate
July 15 (Wed): Orientation / Opening lecture
July ~ August: Students divide up into teams and create business plans. Students consider what kind of business they want to engage in, what their sales target is, who their target customers are, how they will sell their products (marketing, sales and business plan).
August 1 (Sat): Business plan presentation and Evaluation board. Each team of entrepreneurs announces its business plan and negotiates with potential sponsors (venture capitalists), and then finalize its business plan and.
November to the day before the Kyushu Festival: Various submissions and preparations. Establishment of companies and preparations for sales activities.
November 21 ~ 22 (Sat & Sun): Kyushu Festival. Sales activities. Venue for entrepreneurs to present what they have prepared.
January 16, 2016 (Sat): General Meeting of Stockholders/holders and Awards Ceremony. Balance sheets recognized, business reports created. Similarity calculated, companies evaluated.

Seven teams participated in the 2015 academic year and the businesses shown below were established.

<table>
<thead>
<tr>
<th>Company name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bakawaro Co., Ltd.</td>
<td>Fried noodles</td>
</tr>
<tr>
<td>Kyukudanran</td>
<td>Instant noodles</td>
</tr>
<tr>
<td>Chibiboo Fight Club (283133h)</td>
<td>Shichiling gallery, super fast, ring toss</td>
</tr>
<tr>
<td>BEANS</td>
<td>Games for children</td>
</tr>
<tr>
<td>Chibudeko</td>
<td>Fried Oden</td>
</tr>
<tr>
<td>Chiboo Seminar</td>
<td>Toasted sandwiches</td>
</tr>
<tr>
<td>Rukyutn University of Medicine &amp; Nanzenkai Gakuen/Hitomi Town</td>
<td>Vegetable sweets</td>
</tr>
</tbody>
</table>

Speciality Programs

Entrepreneurship Seminar
http://qec.kyushu-u.ac.jp/en/entreseminar

An Interdisciplinary Entrepreneurship Education Program

Schedule to create a new industry, along with research activities that produce the seeds of this new vision, professionals possessing the entrepreneurial spirit necessary to stand up to new challenges must be nurtured. At QEC, the goal is to develop the entrepreneurial spirit in our students and provide each of them with the opportunity to consider different career options. With this in mind, each year the Entrepreneurship Seminar class is planned out and presented in an on-site format, inviting lecturers from a broad spectrum of fields. Selection of the theme and lectures, negotiations, organization and operation, including arranging the day’s lecture program, are tasks completely delegated to the Student Planning Committee.

The Student Planning Committee members in the 2015 academic year wanted to offer an opportunity to find a new perspective and new approach to living, and so they invited seven lecturers from various fields to present on the theme of “Can and find a new ME.” Each time, more than forty students gathered for sessions with a basic lecture plus workshop format. To better suit the concept of each session, a longer lecture period was allocated, the focus was changed to workshops, and other necessary arrangements were made. The lecturers came from many professions. They included Mr. Tomatsu, president of a private enterprise that makes rockets, which was featured in a novel and a TV drama; Mr. Hirayama who made an application based on the motto “new concepts spring from mixing the public and private”; Mr. Osaka who founded a business in Bangkok in her student days, sold it, and is looking for new opportunities, and who isn’t much older than the participating students; and Mr. Aida, a former graduate of Kyushu University. The students found their talks very stimulating.

2015 Theme
A new ME

2015 Entrepreneurship Seminar Lecture Schedule

Seminar #1 November 27 (Fri) Guidance
Mr. Tatsuki Toda, CEO, SynaptiTech Inc.
Ms. Sari Osada, OEO, ISLAND TIME PTE LTD.
Mr. Shinya Yamakawa, CEO, Social Business Partners Co., Ltd., CEO, Men’s Quality Magazine, CEO, Social Marketing Institute, Inc.
Mr. Yoshikazu Hanyama, CEO, SEFURI INC.
Mr. Nobuaki Ando, CEO, Spotlight Co., Ltd.
Mr. Yutaka Matsuda, CEO, Teach For Japan
Speciality Programs

Kyushu University Robert T. Huang Entrepreneurship Program II [QREP20]
http://qrep.kyushu-u.ac.jp/en/qrep

Designed to Encourage a Spirit of Challenge and Global Awareness

13 Events/Workshops

Kyushu University Robert T. Huang Entrepreneurship Program II (QREP20) Final Presentations & Panel Discussion with Entrepreneurs from Kyushu University

Date: March 19 (Sat.), 2016
Venue: JR Hakata City 9F, Conference Room 3 (1-1 HakataekiChongai, Hakata-ku, Fukuoka-city)

On March 19 (Sat), a meeting was held to report on the achievements of students from Kyushu University and Waseda University who participated in the week-long Entrepreneurship Program (QREP20) training held in Silicon Valley. A panel discussion with lectures by entrepreneurs who graduated from Kyushu University was also held. The students who participated in the program gave presentations about what they experienced in Silicon Valley and how it shaped them and their business plans created through group work. They received valuable advice from the lectures. At the QREP Final Presentations held so far, we have held an Asian Roundtable at the same time on various subjects related to Asia. But in the 2013 academic year, since we held more practical training in Silicon Valley, we held lectures and a panel discussion about startups. The Silicon Valley ecosystem is widely known, and the advice and mentoring of experienced entrepreneurs there plays an important role. We invited entrepreneurs who graduated from Kyushu University for lectures and a panel discussion on how to establish the business conditions for startups in a region. Mr. Toshiro Sakamoto, representative partner at QB Capital LLC, spoke on the topic of “The Aims of the QB Fund: The career of a Kyushu University School of Engineering graduate”, describing his own career up to the present time. The theme of the panel discussion was “Approaches to developing an ecosystem in Fukuoka.” Professor Yoshikazu Yonemoto, bioTherapeutics Science, Kyushu University Faculty of Pharmaceutical Sciences, Mr. Ichiro Kimura, CEO of airtel Inc., and Mr. Mamoru Okamoto, CEO of eclipse Corp., fielded questions from the students about their experiences in America and Japan. Besides the lectures, there were many former graduates among the participants who advised the students to put their ideas into practice. We wish them luck with their future efforts.

Goals

- To improve the entrepreneurial spirit
- To improve the global competitiveness
- To improve individual self-awareness

2015 Schedule Silicon Valley Schedule

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February 28 (Mon.)
Arrival – Travel by bus (sightseeing in San Francisco) — Guideline/lectures Prof. Hiroshi Taniguchi, Prof. Naoko Matsumoto — Informal discussions between Kyushu and Waseda University graduates

February 29 (Tue.)
Discussion on international connections with Shun Niki, Portfolio Manager, Nana Inc. (former Sugi Co., Kawaguchiko) — Discussion on new business with Mr. Yosuke Endo, CEO, Bears International — Discussion on international careers Mr. Akemi Koda, USAga Venture Partners — Discussion on researcher’s career with Kenzuke Makino, Researcher, ARPAI at Stanford University — Dinner party at Mr. Robert T. Huang’s house

March 1 (Thu.)
Discussion in business and the U.S. & LinkedIn visit — Plug & Play visit — Stanford University tour — Stanford University Exchange with Prof. Daichi’s Class — Informal discussions, Kyushu University and Stanford University

March 2 (Fri.)
Discussion on international innovation Mr. Yuko Kusaka, Managing Director, Cardio Consulting International Inc. — Panel discussion on international professionals Mr. Mark Kato and others — Discussion on entrepreneurship Dr. Cripher Savio, CEO, Kyusyu, Inc. — Discussion on innovation in Japan and the U.S. Mr. Chika Hashimoto, CEO, Gekisou Inc. — Beta workshop with DFJ Mr. Shiro Kawauchi (CEO, DFJ)

March 3 (Sat.)
Japanese businesses setting up in Silicon Valley and recent trends Mr. Brandon Hilt, FoundersCOBC, Brakas — Oracle visit — Honda R&D America, Inc. visit — Preparations for group presentation (Teaching English) Mr. Kenzuke Makino

March 4 (Sun.)
Group Work — The guidelines for presentation (M. Makino) — Presentation by students — Guidance by Mentor Mr. Hiroshi Matsuoka, Managing Director, DRAPER NEXUS Ventures, Mr. Mark Czerkes, Chief Technology Officer, Mr. Mark Kato, former Sales Director, Hewlett-Packard Ltd., Mr. Tatsuo Ino, former Intel Ltd. — Farewell Reception

March 5 (Sat.)
Get ready to leave U.S. — Arrive in Japan
QREC & Faculty of Information Science and Electrical Engineering, Graduate School of Information Science and Electrical Engineering, Kyushu University/Faculty of business studies, University of Dhaka Interdepartmental Partnership Commemorative Symposium

"Creating Shared Values through Social Innovations in Developing Countries –Role of ICT, Entrepreneurship and Youth–"

Date: September 29 (Tue.), 2015  Venue: West Zone 4, conference room #420, Kyushu University Ito Campus

QREC and Faculty of Information and Electrical Engineering, Graduate School of Information Science and Electrical Engineering, Kyushu University decided to partner with Faculty of Business Studies, the University of Dhaka, to make further use of ICT research and entrepreneurship education toward solving problems in developing countries through social businesses. Professor Shibli Rehman Ul Islam, Dean of the Faculty of Business Studies, University of Dhaka visited Kyushu University with around ten colleagues and on September 28, 2015, a Partnership Commemorative Symposium was held at the Kyushu University Ito Campus.

When considering solutions to the various issues faced by developing countries, sustainable solutions using business techniques bring better results than old-style financing and support alone. One such approach is so-called social businesses, and many large corporations in Europe and America are getting involved. As well as changing the lives of people in developing countries for the better, they also present an opportunity for companies to benefit from huge markets. In other words, social innovation in developing countries is being realized in the form of business. In addition, many young people including university students are getting actively involved. QREC has also been active in support.

In the symposium held after the signing ceremony by representatives of both universities, eight lectures held three sessions with discussions from several viewpoints. The lectures included educators and researchers from the University of Dhaka Faculty of Business Studies and educators and researchers from Kyushu University involved in this field. They focused on how the love of challenge of young people and ICT can be used for innovations in developing countries. There was a lively exchange of opinion, and it was a valuable event for all who took part.

2015 Entrepreneurship in Designing New Value for BOP People Kickoff Seminar

Entrepreneurship in Designing New Value for BOP People – Approaches to designing solutions for developing countries –

Date: June 20 (Sat.), 2015  Venue: Seminar room 3F, EC Building, Kyushu University Hakozaki Campus

On the afternoon of June 20, 2015, the kickoff seminar of the Entrepreneurship in Designing New Value for BOP People was held as part of the 2015 QREC first semester intensive course. It was held on the Kyushu University Hakozaki Campus.

Around the world there are many people suffering from poverty, without access to water, medical care, agricultural tools and other minimum daily necessities. The needs of these countries and regions at the base of the pyramid (BOP) differ from those of developed countries. In other words, rather than applying the technologies of developed countries without modification, it is important to understand the needs of the BOP, and apply them to practical design and services. This course takes solving the problems of the BOP as its theme. Using the techniques of design thinking, students experience the process from understanding the reality on the ground to ultimately developing products and services, as well as the methods and love of challenge involved in identifying and solving problems. This seminar, which was the first class of the course, was also open to the public.

Around 20 participants took part in the seminar. Three guests gave lectures and held a panel discussion. The guests were Dr. Ken Endo, representative of the See-Dust contest project, who gathers professionals and students who use their design skills to solve problems in developing countries, leading to proposals for actual products; Research Professor Masanobu Nagao, who is active in the ECA and has been finding solutions to problems in developing countries and offering support at the national level; and especially appointed associate professor Takeshi Ono, of Osaka University, who is undertaking social business research from an NPO-oriented perspective. This seminar to consider problem-solving in developing countries from different perspectives provided the students and professionals who attended a variety of perspectives.
13 Events/Workshops

Deloitte Tohmatsu Consulting LLC/QREC Business Creation Camp 2015
- Experience business creation with a consultant -

Date: October 11 (Sun.) to 12 (Mon.), 2015
Venue: Silicon Valley Room 2F, the Common Facility 1 building, Kyushu University Dca Campus

For two days between October 11 (Sun.) and 12 (Mon.) 2013 we held a workshop with Deloitte Tohmatsu Consulting LLC study corporate consulting. It was the first workshop since QREC moved to the Dca Campus. Participating students gained practical experience of corporate consulting, carrying out group work to learn research techniques, problem analysis, strategy planning and other frameworks used daily by actual consultants, with a presentation of what they had learned on the final day. In the 2013 academic year, students proposed new businesses, and discovered business opportunities, clarified relevant markets and targets, and developed concrete strategies for proposing value to customers. On the final day, we invited people who have actually been responsible for new businesses at corporations to evaluate student presentations. For the students who participated, it was a good opportunity to hear opinions that will be useful for making actual proposals and for learning business and logical thinking through the methods of the consulting industry.

Nomura Research Institute (NRI)/QREC Consulting Workshop 2015
- Let’s Experience Management Consulting through Role-play -

Date: June 7 (Sun.), 2015   Venue: Silicon Valley Room 2F, EC Building, Kyushu University Hakozaki Campus

On June 7 (Sun.) 2015, we held a workshop with Nomura Research Institute, Ltd, where students role played the techniques of consulting to develop the optimal proposal for a client through logical thinking. Three consultants came from Tokyo and using cases that simulated actual consulting, the students performed individual work and group work, and finally proposed a solution as a team. During the day, the students repeated the cycle of lecture, personal work, group work and review, to produce a responses based on logical thought in a short time. Many students appeared to find it very challenging. Students reported that they were glad to have had the opportunity to learn methods of logical analysis, which was enjoyable, and have it pointed out objectively where their own thinking was illogical, and to encounter the thinking of other people. They learned the importance of logical and comprehensive thinking. They also appreciated the opportunity to hear directly about the content of consulting work, and the approaches and social position of consultants. The students reported that using their brains at full capacity all day honed their ability to think, induced intellectual fatigue, and produced a sense of achievement. It was a rewarding day’s workshop.
### List of Guest Lecturers That Participated in QREC Courses and Events

QREC invites guest lecturers depending on the lessons. In the 2015 academic year, a wide variety of guests kindly held classes for QREC.

<table>
<thead>
<tr>
<th>[Company name]</th>
<th>[Title]</th>
<th>[Name]</th>
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<tbody>
<tr>
<td>ISLAND-TIME PTE. LTD.</td>
<td>CEO</td>
<td>Ms. Sari Ogawa</td>
</tr>
<tr>
<td>Innovation Terra Energy (IET) Co Ltd</td>
<td>Founder and CEO</td>
<td>Mr. Prateek Kumar Garg</td>
</tr>
<tr>
<td>Association of Musical Electronics Industry (AMIE)</td>
<td>Chairperson, Copyright &amp; software Committee</td>
<td>Mr. Shikato Takano</td>
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<tr>
<td>Usaneta Electric Co. Ltd.</td>
<td>Executive Director</td>
<td>Mr. Tomonori Umetsu</td>
</tr>
<tr>
<td>Grove-Bay Area Innovation Program, Institute for Academic Innovation, Osaka University</td>
<td>Specialty Appointed Associate Professor</td>
<td>Prof. Takako Oogai</td>
</tr>
<tr>
<td>LSI International Co. Ltd.</td>
<td>President</td>
<td>Mr. Kentarou Nagakura</td>
</tr>
<tr>
<td>SAEI LLC</td>
<td>Founder and CEO</td>
<td>Dr. Koki Matsumoto</td>
</tr>
<tr>
<td>Os Company</td>
<td>CEO</td>
<td>Mr. Tomokazu Oto</td>
</tr>
<tr>
<td>Kanazawa Institute of Technology</td>
<td>Associate Prof.</td>
<td>Prof. Yukiko Kaneko</td>
</tr>
<tr>
<td>Cardinal Consulting International Inc.</td>
<td>Managing Director (CEO)</td>
<td>Mr. Yuto Kuroda</td>
</tr>
<tr>
<td>Office for the planning and Coordination of International Affairs, Kyushu University</td>
<td>Research Professor</td>
<td>Prof. Mutsunori Nishimura</td>
</tr>
<tr>
<td>Positive Organizational Psychology program, Division of Behavioral and Organizational Sciences, Claremont Graduate University</td>
<td>PhD Student</td>
<td>Dr. Masahiro Ono</td>
</tr>
<tr>
<td>World Intellectual Property holdings, Inc.</td>
<td>CEO</td>
<td>Dr. Yutaka Nakanishi</td>
</tr>
<tr>
<td>University of Gottingen</td>
<td>Associate Professor</td>
<td>Dr. Iris Edger</td>
</tr>
<tr>
<td>Sea-O</td>
<td>President</td>
<td>Dr. Ken Endo</td>
</tr>
<tr>
<td>Drugin Co. Ltd.</td>
<td>President</td>
<td>Mr. Kazuhiro Hirano</td>
</tr>
<tr>
<td>Symp操控 Inc.</td>
<td>CEO</td>
<td>Mr. Tatsuki Tada</td>
</tr>
<tr>
<td>JR Kyushu Railway Company</td>
<td>President</td>
<td>Ms. Tomoyo Konno</td>
</tr>
<tr>
<td>Spotlight Co. Ltd.</td>
<td>CEO</td>
<td>Mr. Nobuki Aono</td>
</tr>
<tr>
<td>TimePro Group Inc.</td>
<td>Director</td>
<td>Dr. Robert T. Huang</td>
</tr>
<tr>
<td>SHURI INC.</td>
<td>CEO</td>
<td>Mr. Yoshinori Hamuro</td>
</tr>
<tr>
<td>Social Marketing Institute, Inc.</td>
<td>CEO</td>
<td>Mr. Shigeki Yamazaki</td>
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</tbody>
</table>

The speakers are listed in Japanese alphabetical order by company name. The positions and titles below are current as of the time of the lecture by the speakers.

<table>
<thead>
<tr>
<th>[Company name]</th>
<th>[Title]</th>
<th>[Name]</th>
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<tbody>
<tr>
<td>Chalmers School of Entrepreneurship</td>
<td>Associate Professor</td>
<td>Dr. Karen Wilkes Mikkelsen</td>
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<tr>
<td>Chalmers School of Entrepreneurship</td>
<td>Professor</td>
<td>Dr. Matt Lundqvist</td>
</tr>
<tr>
<td>Trade for Japan</td>
<td>CEO</td>
<td>Mr. Yosuke Matsuda</td>
</tr>
<tr>
<td>Chubu Bank Corporation</td>
<td>Manager</td>
<td>Mr. Yasuhiro Fukudome</td>
</tr>
<tr>
<td>teamLab Inc.</td>
<td>Senior Managing Director</td>
<td>Mr. István Széki</td>
</tr>
<tr>
<td>Deloitte Tohmatsu Consulting LLC</td>
<td>Senior Manager</td>
<td>Mr. Masahiro Sugimoto</td>
</tr>
<tr>
<td>Audit Department, PwC Office, Deloitte Tohmatsu Tohoku LLC</td>
<td></td>
<td>Mr. Akira Nishikawa</td>
</tr>
<tr>
<td>Department of Computational Intelligence and Systems Science, Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology</td>
<td>Adjunct Professor</td>
<td>Prof. Koji Nakano</td>
</tr>
<tr>
<td>Japan Finance Corporation Research Institute</td>
<td>Senior Economist</td>
<td>Mr. Koji honey</td>
</tr>
<tr>
<td>Healthcare Innovation Group, Social &amp; Industrial Design Division, The Japan Research Institute, Limited</td>
<td>Senior Manager</td>
<td>Mr. Shinsuke Yamasaki</td>
</tr>
<tr>
<td>IBM Japan</td>
<td>Vice President</td>
<td>Mr. Kazuhiro Matsumoto</td>
</tr>
<tr>
<td>Nippa Technology Venture Partners</td>
<td>General Partner</td>
<td>Mr. Katsuki Morisaki</td>
</tr>
<tr>
<td>Academic Technical Evangelism Team, Developer Evangelism, Microsoft Japan Co., Ltd.</td>
<td>Evangelist</td>
<td>Mr. Shinsuke Imajyo</td>
</tr>
<tr>
<td>Hitachi Ltd.</td>
<td>Executive Vice President and Executive Officer</td>
<td>Mr. Toshikazu Nishikawa</td>
</tr>
<tr>
<td>General Administration Division, PwC Asia Pacific Research Center</td>
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<tr>
<td>Future Ventures Capital Co. Ltd.</td>
<td>Chairman</td>
<td>Mr. Koichi Inami</td>
</tr>
<tr>
<td>Sony Product Strategy Headquarters, Fujitsu Limited</td>
<td>Senior Director</td>
<td>Mr. Naoto Takegawa</td>
</tr>
<tr>
<td>WERU INVESTMENT Co. Ltd.</td>
<td>Chairman</td>
<td>Dr. Shinji Morosuke</td>
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<tr>
<td>Raisume Inc.</td>
<td>Founder &amp; CEO</td>
<td>Mr. Yosuke Hamama</td>
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<tr>
<td>Toshiba Co. Ltd.</td>
<td>Owner</td>
<td>Mr. Daisuke Yabu</td>
</tr>
<tr>
<td>Waseda Business School</td>
<td>Professor</td>
<td>Prof. Hirokazu Hasegawa</td>
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</tbody>
</table>
15 QREC Facilities

Silicon Valley Room  http://qrec.kyushu-u.ac.jp/en/rooms

The Silicon Valley Room opened in September 2015, in Room 213 on the second floor of the Common Facility 1 building, at the Ito Campus. Like the Silicon Valley Room operating at Hakozaki Campus, this is a public space that may be used for meetings and exchanges by students enrolled at Kyushu University who have been selected to participate in C&C and AC, as well as students taking QREC courses. Most of the wall surface of the Silicon Valley Room is covered with whiteboard, which helps make the space very versatile.

Meeting Room  http://qrec.kyushu-u.ac.jp/en/rooms

The Meeting Room opened in September 2015, in Room 212 on the second floor of the Common Facility 1 building, at the Ito Campus. This room can be used for meetings or for using the QREC library books. It may be used for meetings and exchanges by students enrolled at Kyushu University who have been selected to participate in C&C and AC, as well as students taking QREC courses.

QREC Studio  http://qrec.kyushu-u.ac.jp/en/qrecstudio

The QREC Studio opened in December 2015, in Room 204-2 on the second floor of the Common Facility 1 building, at the Ito Campus. Students enrolled at Kyushu University who have been selected to participate in C&C and AC, as well as students taking QREC courses, can use the Studio if they make a reservation in advance. You can find out the state of reservations for the Studio by checking QREC’s home page. The Studio can also be used when digital machine tools are to be used in classes.

QREC Studio Tools/Machine Tools Layout (as of Nov.6.2015)