Kobe University Newsletter "Kaze"

Vol. 03 October 2017

FEATURE

30km under the sea: a closer look at giant underwater volcance

RESEARCH

Breaking ground in genome-editing technology

COMMUNITY IMPACT Never dine alone

Kobe insights **Port of Kobe celebrates 150th anniversary**



The Port of Kobe opened to international merchants on Jan 1, 1868. At that time, Kobe was a "sleepy village well known locally for its thriving sake and fishing industries" (Japan Times). Kobe was chosen to be one of Japan's four new international trading hubs (the other three were Yokohama, Niigata and Nagasaki). The port flourished, and by the end of the 19th century roughly 2,000 people lived in Kobe's foreign settlement.

The city's role as one of the first open trading ports has made Kobe one of the most international places in Japan. Marks of its history as a gateway to the world can be seen throughout the city: the former foreign residences on the slopes of Kitano, a thriving Chinatown, and Japan's first permanent mosque, built in 1935 and still used for worship today. And there are the less visible marks of internationalization - for example, the citizens of Kobe are some of the largest bread consumers in Japan. There is also an openness about Kobe, an acceptance of diversity and new ideas.

This year the 150th anniversary of the port opening was celebrated in style, with events in and around the port since April: music festivals, food markets and of course many maritime-themed activities. Festivities peaked in July, when tall ships from other international and domestic ports visited Kobe for a parade on Marine Day. Kobe University has also been celebrating, with tours of the harbor on one of the training yachts at the Faculty of Maritime Sciences.

The Port of Kobe is now on major international sea routes to over 500 ports in over 130 countries and regions. Kobe continues to be a hub for global trade and business, and the University is proud to be a part of this lively and outward-looking city.

Why "Kaze"?

There are two main concepts behind the title "Kaze", meaning "wind". Firstly, Kobe University's goal to innovate, creating a wind of change. Secondly, our location at the foot of Mt Rokkō, an area known for the invigorating wind of Rokkō-oroshi that blows down from the mountain range.

The calligraphy on the cover of "Kaze" was created by Professor Emeritus UOZUMI Kazuaki, a researcher of calligraphy at Kobe University.



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SPOTLIGHT

KOBEC has embarked on two observation voyages to the Kikai Caldera, in October 2016 and March 2017, for a total of 25 days. The training ship Fukae Maru of the University's Graduate School of Maritime Sciences was loaded with the latest observation equipment, and on its first voyage they confirmed the existence of a t lava dome within the caldera. What does this mean?

30km under the sea: a closer look at giant underwater volcanoes

"Tomorrow a volcanic eruption It could happen at any time could occur that takes the lives or - predicting massive livelihoods of over 100 million volcanic eruptions people in Japan." The Kikai Caldera Project run by the Kobe *Exploration* Ocean-Bottom Center (KOBEC) is a research project that aims to image a magmatic system beneath the volcano and predict such catastrophic eruptions before they occur. The Kikai Caldera is a 20km diameter submarine caldera south of Japan's main islands. Roughly 7300 years ago it triggered a massive eruption sense of crisis that "we have to do The general public isn't aware of that said to have wiped out culture in southern Kyushu. KOBEC Director Professor TATSUMI Yoshiyuki is working on the first high-precision imaging and monitoring of this volcano. We talked to him about the significance of this project.

Kikai Caldera?

The Kobe Ocean-Bottom Exploration near the Japanese archipelago within Center was established in October the next 100 years. This is a similar 2015 as part of organizational reforms probability to that of the Great to improve maritime training and Hanshin Earthquake before it technological development. In occurred. In other words, it could addition, we also created this center happen any time. as Kobe University's response to the something about this giant caldera level of danger. eruption".

The Kikai Caldera is the most recent The government's stance is "we giant caldera in Japan. When a cannot prepare for something that caldera-forming eruption occurs, there is a pyroclastic there have been no countermeasures. flow incomparably larger than normal appropriate observation or research. eruptions and a deep layer of volcanic But this isn't just an issue for Japan. ash covers a wide area, potentially No research to date has used imaging causing long-term destruction of the to show magma accumulation in the

livable environment for humans. If such an eruption occurs now in central Kyushu, at worst it could cause the deaths of over 100 million people or create unlivable conditions. Why did you decide to survey the Based on statistical analysis of past events, there is approximately a 1% chance of a giant caldera erupting

catastrophic may or may not happen". So until now

Earth's crust, the cause of such large-scale eruptions.

What is imaging?

Think of it like a CT scan of the Earth's crust. For example, an indirect diagnosis of illness from the observation that someone has a fever is very different from a diagnosis based on a CT scan. Right now, the magma accumulation is only shown indirectly.

We're surveying the Kikai Caldera to carry out monitoring and accurate imaging of the location and size of the magma accumulation. From there we will collect data to help predict eruptions, such as the composition of the magma, the mechanism behind a massive caldera eruption, and the phenomena preceding an eruption.

Now I see what you mean by "first in the world".

Magma imaging is also happening at Yellowstone in Central America, but the observation is not that accurate and they cannot monitor the details. Volcanoes are monitored using seismic waves, but at Yellowstone they use natural earthquakes. In order to increase precision levels, you need to trigger artificial earthquakes and increase the seismic waves passing through the magma, but this cannot realistically be done on land because it would affect the surrounding towns. For submarine volcanoes, this method is possible. If you clear it with the local fishing floor using "SHINDAI-2K", a industry, you can survey a wide area by boat and freely trigger earthquakes.

The world's largest lava dome

What were the results of the Are you saying a giant volcano is forming within the Kikai Caldera? observation voyage?





Remote-controlled underwater robot SHINDAI-2K

Checking the visual feed from SHINDAI-2K

03

interviewee Prof. TATSUMI Yoshiyuki Director of the Kobe Ocean **Bottom Exploration Center**

The most important result was a Yes. The last Kikai Caldera eruption artificial earthquakes to measure the remotely-operated vehicle.

actively emitting gas bubbles and hydrothermal plumes.

better understanding of the seabed was 7300 years ago. After that the terrain. In the first observation dome formed - by simple calculations voyage, we collected data on the releasing roughly 40 cubic km of internal structure and composition of magma. It needs to be confirmed, but the elevated geological formation it's probably the world's largest lava within the caldera. We used dome. It was formed over just 7300 multi-narrow beam echo sounders to years, the fastest speed among measure the seabed landscape, and Japan's volcanoes. In other words, it reflective seismic profiling with is an unusually active volcano.

fault lines in the Earth's crust. On the How is this related to the eruption of second voyage we filmed the ocean the giant caldera?

We still don't know. If 40 cubic km of The results confirmed that the magma have already left the magma elevated geological formation is a pool, a giant eruption may not occur. huge lava dome roughly 10km in However, there could still be large diameter, and part of the dome is amounts of magma beneath the dome. During our recent voyage we took a lava sample from the dome. We have to analyze this sample with our other data.

Sample from the ocean floor



Evaluating deposits and October and next March. Imaging the training maritime specialists

What other research are you working on?

Evaluating hydrothermal deposits. There may be metal deposits within the hydrothermal plumes found during the survey. Japan used to export copper and silver, and we were for famous for 'Kuroko (black ore)' various metals such as zinc, lead, hydrothermal plumes in the Kikai caldera could be the first step towards analyzing the process behind Kuroko formation. We're sharing these findings with the Japan Oil, Gas and Metals National Corporation How are you training people? (JOGMEC) and it could help future searches for resources.

research?

previous voyages, we will embark on and sea exploration training. From observation voyages this coming this year the sea training course is

progress. The magma reservoir is probably located at a depth of ~10km, *Finally, what is the significance of* so we have to carry out accurate imaging for that depth, and to survey the magma-plumbing system we need an artificial seismic wave survey up to a depth of 30km. This is a huge undertaking that cannot be done by Kobe University alone – we have a partnership with the Japan Agency Marine-Earth Science and Technology (JAMSTEC) so we are deposits. Kuroko is a mineral that hoping to work with them for the next includes high concentrations of steps. Together with the Fukae Maru surveys, we plan to send divers to copper and silver. We know it is shallow areas for collecting rock and formed within submarine caldera, but mineral samples. The survey includes we don't know how. The constant monitoring, but we will continue to gather basic data and evidence to make a long-term forecast.

Kikai Caldera is still a work in

include members from our graduate very widely. What about future explorations and schools and other universities. There are no other boats in Japanese universities now with the same As well as analyzing data from capacity as Fukae Maru for surveys

compulsory for members of our Graduate School of Science, and we have started to take students from other universities too. Japan cannot fulfil its potential as a maritime nation without trained specialists, and to achieve this we must continue our research and let students experience the appeal of what we do. As part of this, we've concluded an agreement with the Kochi University Center for Advanced Maritime Core Research. We will also partner with the Kyoto University Sakurajima Volcano Research Center, and we have an agreement with JOGMEC to evaluate the Kikai Caldera deposits.

predicting a giant caldera eruption?

A giant caldera eruption would cause catastrophic damage, and some people say "If it happens that's the end, there's no point predicting it". But should we really leave it at that? This isn't an issue for us scientists to decide. The job of scientists is to determine the scale of the disaster in the event of an eruption, and how to forecast this eruption – the next steps are up to the Japanese people.

However, if the danger levels are correctly understood, certain national organizations may start moving, and it is very important to prepare the basic data for this. In order to prepare for a giant caldera eruption, we need to raise awareness among the general population, not just the government. I want to The Kikai Caldera survey voyages disseminate these research results



Research at Kobe

Breaking ground in genome-editing technology A new biotech business venture in Kobe







Genomes are the blueprints of living creatures; chromosomes and genes within all our cells encode information about life. Genome editing technology that can change these chromosomes and genes has developed rapidly. From drug development and gene therapy, improvements to crops and livestock, to creating useful microorganisms to replace petroleum, this technology has started to have a significant impact on our societies.

Professor NISHIDA Keiji (Graduate School of Science, Technology and Innovation) has developed a new genome editing technology and established a business venture based on his research findings. He is on the front lines of genome editing in both business and research.

Choosing the road less travelled

Prof. Nishida: After 5 years working on my research in the United States, I returned to Japan and realized that my home country was lagging behind in genome editing technology. Many people are involved in research that uses genome editing technology, but not so many people are researching genome editing itself. Genome editing is a tool that can impact every field related to living things. I also chose this line of research because I could see it potentially complementing other research at Kobe University.

Professor Nishida (far right) in his research laboratory on Port Island

Originally from Kobe, he obtained his PhD researching evolution on a molecular level at the Tokyo University Graduate School of Science, Department of Biological Sciences. For 5 years from 2008 he continued his research at Harvard Medical School in the United States.

Prof. Nishida: Research into evolution looks at the composition of organisms in the past. Many areas of this field have already been thoroughly covered by other researchers, so I had to specialize further. I decided that it would be a good idea to look for a different field of study, and I shifted my research focus to synthetic biology, a growing discipline in the United States. Synthetic biology can be described as the process of imitating evolution - creating living organisms. In the US I worked on research that involved adding a mechanism to yeast cells that responds to magnetic fields. Manipulating the genes effectively was a vital part of this, and I experienced a complex and frustrating process. All roads led to genome editing research.

The breakthroughs

In 2013 he returned to Japan and took up his current post at Kobe University. He works with Professor KONDO Akihiko, Dean of the Graduate School of Science, Technology and Innovation, who is currently leading a research project at Innovative Bioproduction Kobe.

Prof. Nishida: I also had the options of staying at Harvard or returning to University of Tokyo, but I decided that Professor Kondo Akihiko's research team could provide the best environment for me to pursue my interests. When I started at Kobe University I hadn't decided on my research topic, so I chose to research technology development for genome editing because it

"For better or worse, our technology cannot stop at the borders of Japan."

many of Professor Kondo's research Japan. In April of the same year, Kobe time there are increasing disputes areas.

technology CRISPR/Cas9 was developed.

impressed by the research findings. breakthrough. Ideally CRISPR/Cas9 cytotoxicity. I aimed to create a called "Bio Palette Co., Ltd". genome editing technology that does time in the United States.

beginning the research to publishing United States I had been thinking Genome editing technology can a paper, but I established the about commercializing my research potentially be applied to many technology over 3 or 4 months of results, so the establishment of the different fields, including medicine, experiments after coming up with the Graduate School of Science, agriculture and microorganisms. At concept. It is comparatively easy to Technology and Innovation was Bio Palette Co., Ltd we have started make a breakthrough in unexamined perfect timing for me. I don't think I building the business, and we are research fields, so I think it's could have started up a business choosing our targets. I think that important for researchers to venture in such a short time at university professors are in very good challenge themselves by choosing another university. newer research fields.

From research result to patent

published in the online edition of Science, business ventures are receiving huge

slices the DNA at the target point, This cross-disciplinary approach Prof. Nishida: For better or worse, and the DNA repairs itself into a new bore fruit in February 2017 when our technology cannot stop at the altered form, but the alteration does Professor Nishida established a borders of Japan. We must see the not always go as planned, and business venture based on his overseas market as our main sometimes the target cell dies of research. His new biotech company is battleground. We have to understand the current global conditions for patents and intellectual property not cleave DNA, and so I developed a Prof. Nishida: When you are strategy, and it is necessary to new genome editing technology putting your research results out into negotiate, including alliances with called "Target-AID" that uses a society, I think that in addition to overseas universities and business deaminase enzyme. I had been publishing a paper, it's also ventures. By working with a strong interested in deaminases since my important to demonstrate its fund in the main arena of the United usefulness in a way that is easy to States, I want to create a business understand, such as through a framework that can develop globally.

In total it took over two years from company. Ever since my stay in the

Why it has to be international

On August 5, 2016, his paper was In the United States, genome editing



The website of Professor Nishida's new business venture Bio Palette Co.,Ltd

was a field that could complement and reported by many media outlets in sums of investments, and at the same University's Graduate School of Science, concerning patent rights. You have to be Technology and Innovation opened. This speedy when it comes to raising funds The year before he came back to Japan, Graduate School covers education and and creating a strategy for intellectual the revolutionary gene editing research in fields from natural sciences to property rights. In May 2017, Professor business administration areas such as Nishida received approximately 400 intellectual property rights and finance, million yen (roughly 3.7 million dollars) of **Prof.** Nishida: I was very with the aim of commercializing research investment funds from a major fund with headquarters in Boston, USA.

> positions to work on business ventures. I hope to continue contributing to society through both research and business.

> Editor's note: This article can also be found on the Research at Kobe website under "Researchers"

International Clinical Cancer Research Center opens

On April 2, an opening ceremony and The International Clinical Cancer as a new base for medical care, Medicine and University Hospital.

private viewing was held for the new Research Center, headed by Professor research and education. It is partially International Clinical Cancer Tetsuo AJIKI (Kobe University funded by Sysmex Corporation. The Research Center (ICCRC), part of the Graduate School of Medicine), Center was established to expand Kobe University Graduate School of opened on Port Island within the opportunities for the next generation Kobe Biomedical Innovation Cluster of medical specialists and contribute to international medicine in cooperation with Kobe University's School and Graduate School of Medicine and Kobe University Hospital.

> The Kobe Biomedical Innovation Cluster is the largest in Japan, currently incorporating 336 medical organizations, research organizations and companies. Within this group, the Center takes a role as an international base for the development of advanced surgical treatment for cancer, next-generation medical treatment, research and development for new medical equipment.

Basic principles of the center:

Patient-focused, training physicians rich in compassion and humanity, development and promotion of advanced medical treatment, global contribution in the medical sphere, and strengthening local collaboration in medicine.

The center provides three courses funded by Sysmex Corporation:

Overview of the Funded Courses

Course titles:

(1) Development and Application of Advanced Medical Technology Department (2) Advanced Cancer Research and Treatment Department (3) International Medical Cooperation and Promotion Department

Running period: April 2017 – March 2020

Key research themes:

(1) Application of leading-edge technologies, such as artificial intelligence and robotics technology, to the surgical domain

(2) Establishment of surgical treatment methods for cancer that are minimally invasive and offer complete cures



Summer School at Kobe University

'One-week experience in Kobe University'

During the week of July 10-15, Kobe University hosted our 3rd summer and SACLA (SPring-8 Angstrom Macau, Malaysia, Vietnam, Korea and school on natural sciences: 'One-week Compact Free Electron Laser). experience in Kobe University'. This program is organized by five natural sciences-focused graduate schools (Science, Engineering, Agricultural Science, Maritime Sciences, and System Informatics) to invite students from partner universities around the world. This year, 18 students from Singapore, China, the Philippines, Indonesia and Taiwan participated in the program alongside students from Kobe University.

The week started with opening remarks from Professor Hiroshi Takeda (President) and Professor INOUE Noriyuki (Executive Vice-President in Charge of International Exchange). They expressed their delight in welcoming participants from around the world and hopes to continue this program to expand international student exchange. Students took lectures in English across the five graduate schools and broadened their knowledge on specific topics in the natural sciences. They participated in a ride on Kobe University training ship Fukae Maru, hands-on training in visualization using π -Viz Studio and a field trip to the Food Resources

Education and Research Center. They







also enjoyed a visit to research centers

All participants enjoyed stimulating lectures and their study at Kobe. They also got a chance to experience Japanese culture and exchange ideas with Kobe University students. Visits to SPring-8 and SACLA were particularly highly acclaimed by participants.

'Kobe SALAD 2017'

The annual Summer School of Asian Law and Dispute Management ("SALAD") was held at Kobe University from August 21 to August 25. The program has been an important part of the Global Master's Program in Law (GMAP in Law) since 2014. It aims to gather Asian law students, academics, researchers, and legal experts working in international disciplines. The participants attend lectures and seminars in English on the latest aspects of business law and dispute resolution in Asia given by lecturers from Kobe University, partner universities, law firms, near the campus, including the K arbitral institutions, and commercial supercomputer, SPring-8 (the world's courts in various Asian jurisdictions. largest synchrotron radiation facility) This year 47 participants from China, Japan took part in this intensive program.



Visit to K supercomputer

Field trip to the Food Resources Education and Research Center

International voices

Approximately 1,200 international students from countries around the world are currently studying at Kobe University. In this corner, our international students introduce their native countries and offer some insights on studying abroad in Japan.



GANG Sunhwa

3rd year undergraduate at the Faculty of Science, Department of Biology Originally from the Republic of Korea, she came to Kobe University in October 2014. **Recently she likes using the Japanese phrase** "ki no sei" (maybe I'm imagining things) with her friends.



Republic of Korea The Republic of Korea, located at the southern part of the Korean peninsula, has a population of roughly 51 million people. The capital is Seoul. Dramas, films and music from this country are popular worldwide, and many people visit from Japan.

Why did you choose Kobe **University**?

I wanted to study in Japan, firstly because Japan is strong in the natural sciences, and secondly because I read a book by IKEGAYA Yuji, a neuroscience researcher at Tokyo University, and decided that I wanted to become a researcher too.

I'm part of a program that allows 100 students from the Republic of Korea to study at national universities in Japan. Among the choice of universities, the biology curriculum here was the closest match to what I wanted to study.

Your Japanese is very good. How did you learn the language?

I like Japanese dramas, and I learned the hiragana and katakana scripts at middle school. I chose Japanese as my second foreign language for high school, but I only learned simple greetings. The

program I joined included a 6-month preparatory program in Japanese at a Korean university, so I studied intensively from morning until night. After I arrived here there was another 6-month Japanese program, so in total I studied fairly intensively for about a year.

What aspects of Japan do you feel are different from Korea?

From a food perspective, Japan doesn't have many spicy dishes. For example, even if the food sold at convenience stores in Japan says "spicy" on the packet, it often isn't. When I go back to Korea in the summer vacation, I realize that we have a lot of "red" food. I was also surprised by Japan's café culture. In Korea drinks are the main feature in cafés, and cakes and sandwiches are a side option, but in Japan lots of cafes serve pasta and lunch menus too. At first I didn't think of these places as cafés, so I thought that Japan didn't have many cafés

Inspired to become a researcher in Japan

For this issue we spoke to an international student from Japan's close neighbor, the Republic of Korea. GANG Sunhwa is an undergraduate at the Faculty of Science. She talked to us about the differences between Japan and Korea, things that surprised her about Kobe University, and her dreams for the future

Hello in Korean



[laughs]. In Korea, we think it's strange to have lunch in a café. Maybe it comes from these differences, but in Korea people often study for one or two hours in cafés over a coffee. There are many cafés near universities, and students use them a lot, but in Japan students don't seem to do that so much. Sometimes I think it's a bit hard finding a place to study around town.

Did anything surprise you about Kobe University?

Many universities in Korea are in the middle of busy towns, so I was surprised by the natural surroundings at Kobe University. It's peaceful, the air is fresh, and it's a great place to focus on studying and research. There are cafeterias and libraries, but I wouldn't mind somewhere close to the campus to hang out as well [laughs].



What are you studying at the moment?

I'm an undergraduate student, so I'm studying a wide range of subjects. I was initially interested in the study of behavior, and I wanted to learn about the links between brain functions and actions. My field of interest was quite narrow, and the Department of Biology covers a very wide area, so to start with I had to study some areas I wasn't that interested in, and my first two years were a bit tough at times. But thanks to this system, I also discovered interesting areas that I hadn't known about before. Now I'm a third year, I'm looking forward to taking classes in my initial fields of interest, such as neurobehavior.

What are you doing when you're not studying?

There is a coffee bean shop near my house that I visit a lot, and I've got to know the shop owner and the other customers. We are all from different age groups, but I often spend time with them and have tea. I also go out to eat with



friends from my faculty, and go out with other students from Korea to do various fun activities. Recently I started k-pop style dancing. I'm still a beginner, but I'm going to keep at it.

What are your dreams for the future?

I still want to do research. Studying a wide range of different subjects here made me interested in other fields, and I'm still not sure what field to specialize in, but I want to become a researcher. When I start my fourth year I'll visit the research labs here. If I find a lab that fits my interests I want to continue to graduate school at Kobe University. If other universities have good programs, I'll think about that too.

Where's your favorite place on campus?

I really like the Centennial Hall. The view is very beautiful, and I used to eat lunch there a lot. The cherry blossoms around the Faculty of Agriculture are beautiful too. Kobe University is surrounded by nature, and I enjoy taking walks around the campus.



COMMUNITY IMPACT

Table for Two - Kobe University Project

Never dine alone: a healthy cafeteria menu that connects the world

The popular "TFT menu" is a special menu that appears in the Kobe University cafeterias twice a year. Part of the meal costs go to provide school lunches for children in developing countries. We spoke to two representatives for the Table for Two Kobe University Project.





3rd vear. School of Business Administration

In developing countries, some people lack the basic essentials. I want this project to draw attention to this reality. In the future I want to work in a business linked to benefiting developing countries.

Left: bibimbap udon noodles, above: sanshoku-don, Below: chicken and vegetable vinegar marinade

Among the world's population of where it covers the cost of one school What are the main Âmerica and Switzerland, and countries. many businesses, groups and students are participating within Japan. TFTKP is one such group.

significance of TFT.

Asai: TFT means that when you developed country, as a rule 20 yen of the cost is sent to a developing country,

7 billion, roughly 1 billion people meal. There are rules for the suffer from malnutrition. At the nutritional balance of these dishes, and other end of the scale, around 2 every time someone in a developed billion people are obese. "Table for country eats one of these healthy *Two (TFT)" is a movement that* meals, they can feed a child for one to eateries in Kobe about 6 years ago. started in 2007 in Japan to help meal. In other words, we tackle *resolve this dietary imbalance. The* malnutrition in developing countries independent donation initiative at the same time as obesity and other non-profit cooperative co-owned by spread to 14 countries including lifestyle-related diseases in developed

Watanabe: At the end of 2015 there activities. were 647 businesses and organizations involved in TFT. Students from **Firstly, please tell us about** various universities, including us, are the organization and participating in the TFT University Association. In developing countries many children from poor families work, and can't go to school. The idea is that if they go to school in order to buy a certain dish or food product in a eat lunch, they can improve their just meals – some eateries also offer education, which could create a tea. foothold for escaping poverty.

activities of TFTKP?

Asai: We started by suggesting TFT After that, we submitted a proposal to the Kobe University Co-op [a students and employees], and the cafeterias started to offer our TFT menu. These are our two main

Watanabe: We often get enquiries from eateries in Kobe who want to include TFT in their menus. We visit them, check if their dishes are suitable, and if they qualify we include them in the program. We collect a 20 yen donation for each meal. It isn't



Table For Two Kobe University Project presentativ WATANABE Minori

3rd year, Faculty of Agriculture *I' ve been actively volunteering since middle school. Recently I decided to start* a project related to children in developing countries, and I feel like my future path is starting to take shape.

We visit each place every so often to see how they're doing. Sometimes we're invited to food-related events, your dishes? and some shops offer TFT as a one-day special. At Kobe Garden Café 2016, an event on the theme of "world food" the TFT menu is always tasty. We' re including Kobe eateries, shops, and very grateful that awareness seems the TFT project onstage. We're ordering the TFT menu in the currently involved with about 10 cafeteria I always think "Ooh!" eateries.

Asai: The University Co-op offers as part of the cafeteria menu. Currently suggestions for sides, mains, rice bowls and noodle-based dishes. We narrow it down to 10 ideas, then after we've tried making them ourselves we

approach the University Co-op. The Is there anything you'd like last step is asking the cafeteria staff to make the dishes, then we talk to them, adjust for the cost of ingredients and

Asai: We're happy that people like efficiency, and the dish is complete. the TFT menu, but I feel like many We aim to create a healthy menu people don't know what TFT is about. using lots of vegetables and seasonal At the moment people at Kobe ingredients, but we also need it to be University are eating 7000 TFT meals approved by the University Co-op and during the two weeks it is offered in chosen by students. As well as safety the cafeteria. But at the same time I and cost, the dish should also be as often hear conversations like "What is tasty and filling as the rest of the menu. TFT?" "I don't know". Ideally, when For example, for meat we often use someone is wavering between the cheap and healthy chicken. We ask the everyday katsu-don (pork cutlet rice cafeteria staff to count the number of bowl) or the TFT sanshoku-don. I want dishes purchased, and we use this data them to think "I choose sanshoku-don, and opinions to come up with new because it helps feed children in menus. developing countries". I want everyone to understand the significance of TFT.

Watanabe: This time one of my menu ideas, sanshoku-don Watanabe: We're posting about (three-colored rice bowl) was selected. TFT activities on social media for the I'm very happy that one of my ideas general public, but as a member of will help collect donations. The TFT-UA, I think it's important to University Co-op TFT menu includes spread the word among students too. a 10 yen donation for each dish - we adapt our donations based on prices at each facility.

What do students think of

Watanabe: To raise the profile of TFT among students, I want to increase the places that offer TFT Asai: Lots of people tell us that dishes both inside and outside the University, including eateries near our University and lunchboxes sold artists, we were honored to introduce to be spreading. When I see someone at the University Co-op. I want to suggest recipe ideas to eateries as well. We' re having meetings and (laughs). study camps with TFT associations at other universities to share ideas.

Watanabe: We also sell healthy TFT dishes for a few weeks twice a year rusks at the university festival, which are popular every year. Each purchase we have 24 members. We work includes a 5 yen TFT donation. together to come up with recipe We' re looking forward to selling other things this year.



Stall at Kobe University festival "Rokkosai

to improve?

How are you planning to develop this project?

Asai: I want to start a communications team that raises awareness all year round, including new publicity initiatives. We'll continue to discuss ideas and actively work on new plans.



Members of the Table for Two Kobe University Project

International special feature Strong partnership with Europe



Kobe University has strong ties with European universities and research institutions. and we have established two offices in Europe (in Belgium and Poland). We asked Professor YUI Kiyomitsu (Executive Assistant to the President in Charge of International Collaboration) and Kobe University's activities with and in Professor YOSHIDA Ken-ichi (Executive Director of the Kobe University Brussels European Centre) to tell us why Europe is *important, and their vision for future activities* with Europe.

Europe as a strategic partner: Why Europe?

Prof. Yui: The world is now in transition and Japan and Europe face societal challenges. Thanks to our common values, we found it easy to start collaborating with European researchers to tackle these issues. The first official collaboration for Kobe University was participation in the EU Institute in Japan, Kansai (EUIJ-Kansai), a



Interviewee **Professor YUI Kiyomitsu (right)** Executive Assistant to the President in Charge of International Collaboration Graduate School of Humanities

consortium that manages EU studies programs and disseminates information about EU affairs in Japan. Kobe University now has more than 130 partners in Europe, and it's the most popular study abroad destination for our students.

Europe

Prof. Yui: First of all, I must say that Kobe University's collaboration with Europe is very active, with two overseas offices in Europe, one in Brussels and one in Kraków. We hold annual symposia and workshops in Brussels, as well as seminars in Europe with Japanese governmental institutions including the Japan Foundation.

Prof. Yoshida: Workshops in Brussels are usually held by Kobe University's researchers about 10 times in a year and partly supported by the University's budget. Since workshops are bottom-up projects, I encourage researchers to apply for support from the University.

Interviewee

Professor YOSHIDA Ken-ichi (left) Executive Director of the Kobe University Brussels European Centre (KUBEC) Graduate School of Science, Technology and Innovation



Prof. Yui: Another new initiative is a joint lecture series program with our European partners. Through this program, Kobe University sends or accepts professors to lecture in Kobe or at a partner university. This program started with Jagiellonian University in 2015, where our Liaison Office in Kraków is located.

Prof. Yoshida: We also have experience participating in European research projects. From September 2013 to February 2017, Kobe University worked as a consortium member of the Japan-EU Partnership in Innovation, Science and Technology (JEUPISTE). Participation in this project enables Kobe University to European funding agencies.

Prof. Yui: Participation in Erasmus+ also provides us with we've been adopted as a Jean Monnet connections Centre of Excellence and the Jean organizations. Monnet Chair program.

Kobe University's strengths in collaboration with **Europe**

Prof. Yoshida: Kobe University was the first Japanese university to establish an overseas office in Brussels. We recognize that Brussels has long been home to representatives of numerous European and international institutions with headquarters at the heart of Europe.

Prof. Yui: I've heard that European or Japanese government staff sometimes say, 'mentioning Kobe University always brings up something about Europe'.



Prof. Yoshida: I've heard that too. from October 2017 we are starting a share European research policies with Last year we held a symposium course titled "The Place of V4 celebrating 150 years of Countries in Europe and Japan" to Japan-Belgium friendship and an study the importance of Central and academic lunch with the Belgian King Eastern Europe within the EU, links and Queen. We were the only Japanese between Japan and the region, and its opportunities for student and staff university to host this memorable position in Japan. mobility. We have seven Erasmus+ event - an example that shows Kobe partners in Europe at the moment, and University's strong presence and close **Future Perspectives** with European

> We also initiate participation in European research and education projects, like Horizon 2020 and Erasmus+. Since Mr. Patrick Vittet-Philippe, the former Head of Japan and Russia Desks, Directorate-General for Research and Innovation at the European Commission, was appointed as advisor to KUBEC last February, KUBEC has joined Unilion, the network of overseas offices in Europe started to support applications for European grants. I expect KUBEC activities will strengthen with Mr. Vittet-Philippe's assistance.

> Prof. Yui: The Liaison Office in Krakow works well as a base for collaboration with Central and Eastern Europe. Kobe University received the Visegrad University Studies Grant and



Liaison Office in Krakow (est. 2015)

15

Prof. Yui: Kobe University is now expanding activities from Brussels to central and southern Europe. Since our international collaboration with central Europe has strengthened through the Liaison Office in Krakow, our next target is southern Europe.

Prof. Yoshida: Speaking of southern Europe, we're just starting government-academia collaboration on the 'Smart City' project with Barcelona, one of Kobe's sister cities. Since Barcelona and Marseille are sister cities of Kobe, we will contribute to governmental collaboration using these networks in southern Europe.

Brussels European Centre (est. 2010)

International special feature Strong partnership with Europe

Erasmus+ mobility with Jagiellonian University

In May and June 2017, three professors and three in Japanese culture' at the Centre for Comparative Studies administrative staff from Kobe University participated in the Erasmus+ mobility programme with the Jagiellonian University.

Kobe University has been actively participating in the Erasmus+ Programme with several partner universities. The Jagiellonian University is one of our dynamic exchange partner universities in Europe.

In 1998, Kobe University started collaboration with the Jagiellonian University in the humanities, expanding this collaboration to a university-wide agreement, including student exchange in 2012. Since 2013, we have been members of the EU-Japan Advanced Multidisciplinary Master Studies project (EU-JAMM) consortium. In 2015, Kobe University established a liaison office within the Centre for Comparative Studies of Civilizations at the Jagiellonian University. Our universities have co-operated to organise various programmes and events, such as joint lecture series in Japanese Studies and Law and the symposium 'New Research Perspectives from Japan and Poland' in 2016.

On 15-19 May, Dr Joanna Guzik (JU Faculty of International and Political Studies) visited the Graduate School of Humanities at Kobe University. During her 5-day stay in Kobe, she delivered intensive lecture series, together with her host Prof. Kiyomitsu Yui, and led a seminar on 'Migration and Multiculturalism: Cases of EU, Poland and Japan.' During the seminar, she examined societal challenges concerning multiculturalism from the perspectives of the EU, Poland and Japan, together with Prof. Kazunari Sakai (Intercultural Studies, Kobe University). She also held a seminar to introduce the Jagiellonian University to students interested in study abroad programmes, which provided them an opportunity to learn about JU and student life in Poland.

My stay at Kobe University was a great experience, thanks to the warm welcome and kind support I received from Prof. Kiyomitsu Yui. Daily meetings with professors, the seminar I was honoured to deliver, as well as classes with students, inspired me by providing new ideas for conducting my research and teaching activities. I am very grateful. (Dr J. Guzik)

On 22-26 May, two professors from Kobe University visited the Jagiellonian University. Prof. Kantaro Ohashi (Graduate School of Humanities) stayed at the JU Institute of Philosophy, his host being Dr Jakub Petri. Prof. Ohashi held a series of lectures titled 'Recent trends of nostalgia

of Civilisations, a public lecture 'Monster and Disaster: Imagination and aesthetics of catastrophe in modern Japan' and an online lecture 'Monster and Disaster: Modern philosophy about monstrosity' in Academia Electronica. Moreover, he gave a presentation titled 'Brief history of Japanese modern aesthetics' for members of the Department of Aesthetics, followed by a discussion on international research collaboration.

My first stay in Krakow was really exciting, thanks to the hospitality of the Jagiellonian University professors and staff. It was also a significant visit for our academic relationship in order to cultivate future collaboration in the humanities. (Prof. Ohashi)



Dr Joanna Guzik visits Kobe University



Professor Masato Karashima at Jagiellonian University

Prof. Masato Karashima (Graduate School of Intercultural Studies) visited the Institute of Intercultural Studies his host was Dr Franciszek Czech, and the Institute of Middle and Far East where he was received by Dr Ewa Kamińska. Prof. Karashima delivered a seminar on Japanese society and culture, prompting a vivid discussion with faculty members and students of the Department of Intercultural Studies. During his stay at JU he participated in Dr Kaminska's course on Japanese society and culture. Both scholars discussed joint short-term student study programmes.

JU students planning to study at Kobe within our exchange scheme. (Prof. Karashima)

On 19-23 June, three administrative education with other participants from universities in Europe, including Spain, Belgium, the UK and Hungary as well as non-EU countries such as China, Mexico and Kenya. During the one-week training, they attended seminars focused on international affairs including international co-operation within Erasmus+ and international support services. They also get to know international activities

Prof. Kantaro Ohashi

Kobe University

"Monster and Disaster: Modern philosophy about monstrosity"



international support at various higher education institutions. The training was incredible and convinced me that we, administrative staff, can play an important role in the process of internationalization. I hope and believe that every participant, myself included, can use this knowledge to promote carried out at other universities. Last but not least, they had the opportunity This programme gave me a to learn some Polish as part of the wonderful opportunity to training, enjoyed visits to the JU exchange ideas and opinions with JU scholars and students. In particular, I was excited to see the III students planning to study of Kraków. myself included, can use this knowledge to promote international activities at each institution. Many thanks to all the JU staff and other participants who made this week such a Here are the comments of our participants: On 19-23 June, three administrative staff from Kobe University participated in the Erasmus+ Staff Training Week 'JUst a Week' organised in Kraków. On these days, they discussed the internationalization of higher memorable one, and the KU staff who made it possible for me to attend this useful training. (Yoshiko Yamada, Research Support Section, Graduate School of Engineering).

University. (Yuriko Okuno, Student Affairs Section, Faculty of Global Human Sciences)

Throughout the week, I had the opportunity to participate in interesting workshops and seminars conducted by JU staff and guest speakers and was able to experience and learn about practices concerning





Academia Electronica oraz Instytut Filozofii UJ

> 24 maja (środa) o godz. 19.00 Blue City



JUst a Week gave me brilliant ideas regarding how to make universities better for international students and researchers. (Yuto Tokumoto, Student Affairs Section, Graduate School of Law)

International Collaboration



Europe 🕟

Activities at the Kobe University Brussels European Centre (KUBEC)

Established in September 2010, the Kobe University in international research activities, particularly with Brussels by a Japanese university. It is our primary base for strengthening collaboration in education and research between Japan and Europe.

New Advisor appointed to KUBEC

In February 2017, Mr. Patrick Vittet-Phillipe, formerly Head of Japan and Russia Desks at the Directorate-General for Research and Innovation, European Commission, was appointed as the new Advisor to KUBEC. As part of his previous responsibilities, Mr. Vittet-Philippe regularly gave presentations to Kobe University on the European Commission's policy for international cooperation in research and higher education, and encouraged the University to develop its activities in Europe, particularly through participation in European research programmes.

Comment from Mr. Patrick Vittet-Phillipe:

T am truly delighted and honored to have been asked to contribute to the Initiative for Excellence launched by one of the most forward-looking universities in Japan. I am impressed by Kobe University's resolute engagement

Brussels European Office is the first centre founded in Europe, and by its commitment to meet the challenges and expectations of 21st Century education in the global environment. Engaging in a constructive dialogue between Japan and Europe, and building innovative international partnerships represent, in my view, the best ways to develop students with a global mindset and find answers to the World's key societal challenges'.

Unilion Core Group Meeting

On September 21, Kobe University hosted the Unilion Core Group Meeting. Unilion is an informal network of 31 members collaborating together in Brussels and representing 93 Universities. Kobe University joined the network in February 2017 to strengthen activities in Brussels.

In the meeting, Professor Ken-ichi Yoshida (Executive Director of KUBEC) introduced the latest developments in education, research and innovation, key international activities with special focus on Europe, and discussed new opportunities for cooperation with European universities and research centres.





Visegrad Project kicks off

Using the Visegrad University Studies Grants, from October 2017 Kobe University has started a course titled "The Place of V4 Countries in Europe and Japan" to study the importance of Central and Eastern Europe within the EU, links between Japan and the region, and its position in Japan. The course is open to Kobe University students including exchange students from our partner universities, and taught with cooperation from scholars in our V4 partner universities: Jagiellonian University (Poland), Eötyös Loránd University (Hungary), Comenius University in Bratislava (Slovakia), and Charles University (Czech). This course is also planned

to form part of the Kobe University Educational Program on Current Japan, an English and Japanese-taught program focusing on current issues in Japan.

On May 29, Kobe University held the Visegrad Project Kick-Off Workshop titled "Prospects of Visegrad Project: **Comparative Studies on Migration and Social Movements** in V4 Countries, Japan and Asia" at Jagiellonian University in Kraków, Poland.

Joint symposium with Beijing Foreign Studies University

On June 23, the Kobe University Center for Asian Academic **Collaboration and Beijing Foreign Studies University jointly** hosted the Second Beijing Foreign Studies University – Kobe University Joint Symposium at Kobe University.

Asia

At the start of the symposium, a signing ceremony took place for the updated Kobe University and Beijing Foreign Studies University International Collaborative Research Base Action Plan. Both universities pledged to deepen cooperation in the areas of social sciences and humanities including legal studies, international relations, subcultures, and Japanese/Chinese language studies.

In the symposium, the morning session focused on social sciences under the topic of "Japan and China's Relationship in Diversifying World Economics" and the afternoon session focused on the humanities with the theme of "East Asian Cultures, Languages and Nations as 'Spaces for Communication". Both universities examined further developments in collaborative relationships with other researchers in China, Asia and worldwide.

Forum for Leaders of Japanese Studies

The 5th Annual Conference: the Forum for Leaders of existing network of leaders in Japanese Studies by sharing Japanese Studies was held on September 27. The Kobe insights from various academic fields through the lens of University Center for Asian Academic Collaboration hosts Japan. this event every year, and it demonstrates how collaborative On the previous day, the 2nd KU-FTU Cooperation Symposium titled "Role and Prospect of Japan-Vietnam exchange among researchers in this field is significant for global society. This year we were honored to host eminent Academic Exchange" was held. This symposium aimed to researchers in the field of Japanese Studies from Cambodia, strengthen the partnership between Kobe University and Foreign Trade University (FTU), where Kobe University China, Vietnam, and South Korea. In the morning session, attendees discussed the future Hanoi Liaison Base is located. Participants from FTU also direction of the forum and their expectations for Kobe joined the Forum for Leaders of Japanese Studies to explore research collaboration between our institutions.

University. The afternoon session was held on Asian perspectives of Japan in the age of global structural transition. The event ended with an active and thought-provoking discussion. This conference has further strengthened the



Students visit from University of Southern California



Visit from USC Business Japanese Course



Joint symposium with Beijing Foreign Studies University

Kobe University hosted 10 undergraduate students from the University of Southern California's Business Japanese Course. The initial two weeks of the course are spent at the USC campus to develop language skills, learn Japanese business customs, and focus on case studies. The class moves to Japan for the second half of the course to obtain more practical knowledge about Japanese business and society through company visits, business lectures and other activities. During their stay, the delegation members had opportunities to attend lectures, visit local companies including newspapers and sake breweries, and collaborate with Kobe University students. They also enjoyed a baseball game with a stadium tour.



4 campuses | 10 faculties | 15 graduate schools



16,144 students including 1,201 international students comprising over 85 nationalities

3,741 staff including 1,641 teaching staff 2,100 administrative staff 135 faculty staff in attached schools

Partner Universities

Kobe University currently has 392 partner agreements in 60 countries/regions.

