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## News

### Article of Professor Masahito Kodera (Faculty of Science and Engineering) Published in Chemistry - A European Journal

An article of Professor Masahito Kodera (Department of Molecular Chemistry and Biochemistry, Faculty of Science and Engineering) was published in Chemistry - A European Journal. It was selected as a 'Hot Paper', and also featured as a frontispiece.

The article is about the structure of high-spin  $\mu$ -oxodioxodiiron(IV), which is an oxidation active species of methane monooxygenase, and bio-inspired binuclear iron complexes that exhibit high reactivity. Professor Kodera clarified the formation mechanism of oxidation active species using the spectroscopic and kinetic analytical methods, and reported the specifically great kinetic isotope effects in the alkane C-H bond cleavage, as well as the high catalytic activity that oxidizes alkane to alcohol. As a result, he discovered that high-spin

$\mu$ -oxodioxodiiron(IV) has activity more than 600 times higher than existing binuclear iron complexes.



#### Title of Article

'Formation and high reactivity of anti-dioxo form of high-spin  $\mu$ -oxodioxodiiron(IV) as the active species that cleaves a strong C-H bond'

#### Presenter / Lead Author

Masahito Kodera

Professor, Department of Molecular Chemistry and Biochemistry, Faculty of Science and Engineering

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Kazunari Yoshizawa (Professor, Kyushu University)

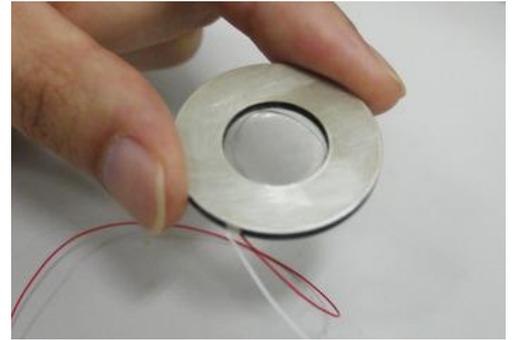
Kaoru Mieda (Post Doctor, University of Hyogo)

Takashi Ogura (Professor, University of Hyogo)

## Associate Professor Daisuke Koyama (Faculty of Science and Engineering) Develops Ultra-thin Lens for Smartphones

Associate Professor of the Department of Electrical Engineering, Daisuke Koyama, has recently developed a lens with 2mm thickness for smartphone cameras. His innovative technology allows the focal length to be adjusted by ultrasonically changing the shape of the lens like a human eye lens. This silicone gel lens doesn't need mechanical moving parts such as gears and an actuator module, and so has the potential to make smartphones even thinner.

Koyama's development was introduced in the Nikkei Newspaper (August 22, 2016, morning edition).



## Study Abroad Briefing Session and Exchange Meeting for Science Students Held by the Faculty of Science and Engineering and the Faculty of Life and Medical Sciences

On September 23, 2016, a study abroad briefing session and an exchange meeting for students studying in science courses was held at Hamac de Paradis Latte (Kyotanabe Campus), organized by the Faculty of Science and Engineering and the Faculty of Life and Medical Sciences. The event was attended by 25 Japanese and 7 students from other countries.



Following the briefing about the study abroad programs to inter-faculty partner universities by faculty office staff, and the explanation about the scholarship called 'Tobitate! Ryugaku Japan' by the Office of International Affairs, Mahiro Hiramatsu (master's student in Science of Environment and Mathematical Modeling, Graduate School of Science and Engineering) talked about his study abroad experience. Hiramatsu studied in a double-degree program for two years at École Centrale de Lille (one of Doshisha's, as well as the aforementioned faculties', partner universities), and returned in August this year. Valuable feedback was obtained from participants, and included comments such as, 'Listening to the science student's study abroad experience was very helpful and informative as this was my first-ever chance to hear such an account,' and, 'It was good to obtain realistic information about studying abroad, including about research content at the partner university'.



The main part of the event was the introduction of partner universities. Three or four Japanese students made a small group and each international student went around the groups and introduced his or her university every seven minutes. Discussion in such small groups created a lively and productive atmosphere, and engaged students' interests in various countries and universities as potential destinations for studying abroad.

The event also gave the participating international students, who arrived in fall 2016, a good opportunity to exchange with Japanese students and current international students. At the exchange meeting that followed, participants enjoyed talking more about study abroad experiences. Some said, 'I'm pleased to get a lot of information about studying abroad and scholarship opportunities', and 'It's nice to make friends with international students', and also, 'It's a good opportunity to speak English'.

This briefing session is organized for science students annually in late September. Details of the schedule are posted on the university's website and bulletin board during the summer months. Feel free to participate if you are interested.

Also, we are planning to hold a discussion meeting during this fall semester in which students who have studied in double-degree programs overseas will talk with interested students in a relaxed atmosphere. Please check out the schedule and come along if this event sounds appealing.

## Harvard Summer School in Kyoto 2016 – Imadegawa Campus

We welcomed Harvard Summer School for 8 weeks started June 6th and closed July 29th. We had 18 students this 7th year, and they took two courses: “Introduction to the Study of East Asian Religions” by Professor James Robson and “Japan: Tradition and Transformation” by Professor Mikael Adolphson, and had several class-related field trips which made them deepen their understanding of Japanese history, society and cultures.

We also had 12 Doshisha students as study-partners on this program - 7 students in Professor Robson’s course and 5 students in Professor Adolphson’s course. Study-partners have contributed well by giving their perspectives as local students. They were stimulated by the program participants and learned a lot from them through interactions. All the students made great friendships outside the classroom as well.

There were also great host families who warmly opened their home to the participants and treated them as their family members for 8 weeks. Homestay has been one of the important elements of this program.

Sayonara (farewell) party which was held at Kambaikan building on July 29th had over 80 guests including students, faculties and host families. People shared their memories, laughed a lot, cried a little and closed the program with promising to see each other again someday in the near future.



## Study in France Promotion Tour across Japan Held

On October 18, the 2016 Study in France Promotion Tour across Japan took place in Sanctus Court (in front of the Library) on the Imadegawa Campus.

At the event, two Doshisha students who studied in France under the study abroad program acted as operating staff with the staff of the organizer, Campus France. They talked about the appealing points of studying in France, sharing their many experiences with the participating students.

There were enthusiastic questions from the attendees, including ones on how to prepare for studying abroad and daily life overseas, as well as on approaches to job hunting after returning. The event was an excellent opportunity for participants to learn directly from the experiences of those who have studied overseas.

This was the first time for Doshisha to hold this kind of event. It was therefore pleasing to see more than 200 people visit our booth, and the occasion was deemed a success.

If interested, please check the university’s website or notices, etc. for coming events, and feel free to come along and participate.



## ‘Partnership Declaration concerning Disaster Volunteers’ Announced

On October 16, 2016, the Welfare Volunteers & Social Welfare Council Festa was held at Hito Machi Koryu-kan, Kyoto, where university volunteer centers in Kyoto and the Kyoto Social Welfare Council announced the Partnership Declaration concerning Disaster Volunteers.

Amid the recent frequent occurrence of natural disasters, it has become necessary to establish and operate a disaster volunteers center, as well as train individuals who can lead disaster volunteers in affected areas. Kyoto, as a city of universities, has been expected to launch a comprehensive volunteer initiative for students. Therefore, some of Kyoto’s university volunteer centers and the Kyoto Social Welfare Council announced that they will build a partnership and work together to prepare for disasters and take appropriate relief measures in the wake of such disasters.



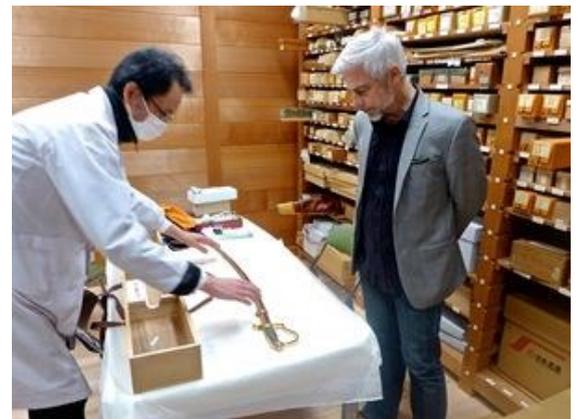
From Doshisha University, Masahiro Ueda, Director of the Student Volunteers Support Office, attended the declaration announcement event, where the content of declaration was confirmed. Mr. Ueda also joined the commemorative photo with Kyoto Mayor Mr. Daisaku Kadokawa, and Mr. Nobuo Murai, the Chairperson of the Kyoto Social Welfare Council.

It is expected that initiatives for disaster relief volunteer activities will be further advanced through collaboration and cooperation between the Kyoto Social Welfare Council and the university volunteer centers, resulting in positive effects such as exchanges among university student volunteers and the activation of volunteer activities in each participating university.

The initiatives of Doshisha University will be continuously updated on the website of the Student Volunteers Support Office.

## Mr. Alpheus Hardy’s great-great-great grandson, Mr. Sean Harkness, Visits Japan

On November 7, 2016, Mr. Sean Harkness, a professional guitarist and a great-great-great grandson of Mr. Alpheus Hardy, visited Doshisha. Alpheus Hardy, owner of the Wild Rover ship that Joseph Neesima boarded to America in 1864, adopted Neesima as his son and greatly supported him both financially and spiritually.



During his visit, Mr. Harkness took time to examine a special saber displayed in the Doshisha Archives Center. The saber was presented to Doshisha in 1965 by his grandfather, Mr. Gelston Hardy, to commemorate the companionship between Neesima and Alpheus Hardy and also Arthur Hardy (son of Alpheus Hardy and grandfather of Gelston Hardy). The saber was the actual one received by Arthur Hardy at his graduation from the United States Military Academy at West Point, and he treasured it all his life.

Gelston Hardy continued to associate with Doshisha from 1955, and together with his wife attended a ceremony in 1965 marking the 90th anniversary of Doshisha’s foundation. The year 1965 was also the 100th anniversary of Joseph Neesima’s arrival in Boston, where Neesima and the Hardy Family started a deep and meaningful relationship.

Arthur Hardy is known to have published a book, “Life and Letters of Joseph Hardy Neesima,” soon after Neesima passed away in 1891.

Harkness also visited locations associated with the Hardy Family, such as Neesima Hall with the portrait of Mr. and Mrs. Alpheus Hardy, Meitokukan Building with the Tablet of the Wild Rover, and also Kambaikan Hardy Hall, Doshisha Chapel and Doshisha Cemetery.

## Karatedo Club's Rina Okita Wins Individual Kumite Female -61kg at Vietnam Open 2016

Comment of Okita:

From May 23 to 27, the WKF Vietnam Open Karatedo Championships 2016 was held in Vietnam, and I won the title in the Individual Kumite Female -61kg event.

It's been three years since I last participated in an international tournament so I was a little nervous, but fortunately I was able to play at my own pace.

With the help and support of many people around me and a good environment provided by the university, I was able to demonstrate my abilities at the Karatedo Club and win the title. Support messages from senior club members, as well as peers and junior members, kept my spirits up, and I was full of gratitude when hearing the national anthem while standing on the center of the podium.



Capitalizing on the experience and with the pride as a member of Doshisha Karatedo Club, I'm committed to trying harder to achieve good results at future tournaments both inside and outside the country. 'Nothing is impossible to a willing heart' is my motto.

## Karatedo Club's Saki Yamashita (Faculty of Health and Sports Science) Wins 23rd World Karatedo Championships

From October 25 to 30, 2016, the 23rd World Karatedo Championships was held in Linz, Austria, where Saki Yamashita of the Doshisha Karatedo Club won the title in the Female Team Kata event.

Comment of Yamashita:

Selected at the trials during the national team's training camp, I participated in the 23rd World Karatedo Championships as a Female Team Kata member. The World Karatedo Championships takes place every two years, and I've been training very hard every day for the Championships.

One month before the Championships, I broke my leg while training. I concentrated on treatment for a month, but I had to participate in the Championships with my leg not yet completely recovered. With the supportive care of the national team's trainer and pain relief medication, I was able to bring out my best in the tournaments.

After defeating the strong Italian team in a close game in the semi-final, we fought against the European champion Spain in the final. We fully enjoyed the tournament and kept a calm state of mind, which I think helped us to win the Championship. Playing with the injury made me feel more deeply how much I am supported by many people, and made me stronger. I'd like to take this opportunity to express my heartfelt gratitude to all the people who supported me.



# Overseas Offices

Doshisha University's overseas offices were established in order to further promote its rapid and effective internationalization. At our overseas offices, we are implementing mainly public relations activities to increase the profile of Doshisha University, while at the same time making the most of the characteristics unique to each office. In addition, we are undertaking various efforts to recruit overseas students, support our students while they are studying overseas, and provide on-site support to members of our faculties while they are overseas.

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# Greetings from the Institute for the Liberal Arts

Greetings from the Institute for the Liberal Arts Office!

We hope that you had a wonderful New Year holiday.

In April 2011, the Institute for the Liberal Arts (ILA) welcomed twenty students as the first cohort into the four-year undergraduate degree program delivered entirely in English. In March 2017, the fifth cohort will be graduating from Doshisha University with a B.A. in Liberal Arts.

Over the past years, the ILA has continued to diversify as we now have about 200 students from more than 40 countries. Every student has a myriad of talents and interests which together contribute to our special learning community here in the heart of Kyoto.

We are planning to release our new Admission Guide 2018 by May on our website at:

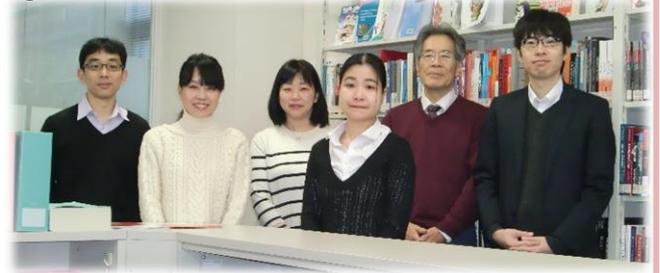
<http://ila.doshisha.ac.jp/admissions>.

We hope you will visit our website and find out more about our program.

Best wishes for 2017, and please do stop by our office for a visit.

Warm regards,

The Institute for the Liberal Arts Office



## Application requirements

### ■ First-Year Student Application

Applicants should satisfy one of the following requirements by the time of enrollment at Doshisha University:

- 1) Applicants should have completed twelve years of school education (including successful graduation from an accredited high school) outside Japan.
- 2) Applicants should possess a university entrance qualification such as the International Baccalaureate, Abitur, or French Baccalaureate and be at least 18 years of age.
- 3) Applicants should have completed twelve years of education at a WASC, CIS or ACSI accredited international school and be at least 18 years of age.
- 4) Applicants should have graduated from a high school accredited by the Japan Ministry of Education, Culture, Sports, Science and Technology.

### ■ Third-Year Transfer Student Application

In addition to one of the four requirements stated above for first-year applicants, third-year transfer applicants should satisfy one of the following requirements.

- 1) Applicants should have completed or be expected to complete two full academic years at ONE undergraduate degree-conferring institution as a regular student by the time of enrollment at Doshisha University.
- 2) Applicants should have graduated from a two-year college or be expected to graduate by the time of enrollment at Doshisha University.

### ■ English Proficiency

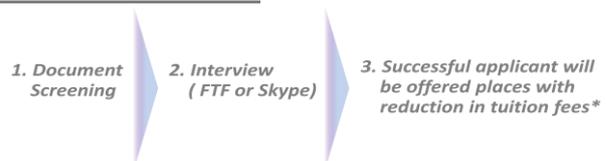
Applicants need to provide one of the test scores listed below to verify their English language proficiency. Please note submission is optional for native speakers of English and applicants with 12 or more years of education in English.

- TOEFL® iBT: 85
- IELTS Academic Module: 6.5
- ACT Combined English/Writing (Writing Test Score): 22
- Old SAT Critical Reading and Writing sections 510
- New SAT Redesigned SAT Reading Test 28 and Writing & Language Test 29

### ■ We are looking for

applicants who have an excellent secondary school record. However, over and beyond a high GPA and outstanding standardized exam scores (typically students accepted to the ILA have an IB score of 32 or above, and SAT score of at least 1650, or three GCE A levels), most importantly we look for applicants who demonstrate a passion for the Liberal Arts Program with an obvious and strong potential for contributing to the intellectual and social life of the Institute.

### Admission Procedure



*\*In principle, scholarships are applicable to students on a college student visa*

**Great Voyage** is published by the International Center at Doshisha University.

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