

News Letter

Vol. 4

前書き：京都大学大学院エネルギー科学研究科の国際化を加速させる組織として、国際先端エネルギー科学研究教育センター (IAESREC) を設置しています。IAESREC ニュースレター第 4 号では、コロナ禍中で様々な困難を乗り越え研究を進めてきた、当研究科のダブルディグリープログラム生を紹介します。

Preface: International Advance Energy Science Research and Education Center (IAESREC) is an organization established by Graduate School of Energy Science Kyoto University, which is aiming for the acceleration of international research and education. The 4th volume of IAESREC newsletter will introduce our double degree students who have overcome difficulties to keep on their research during this pandemic situation.

ダブルディグリー学生紹介

Introduction of double degree students

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I am Peizhao LIU, from China. I was a Ph.D. student with a double doctoral degree program between the University of Bordeaux (France) and Kyoto University. I successfully defended my doctoral thesis last year 21th September 2021 under the supervision of Prof. Reiko ODA (University of Bordeaux) and Prof. Takashi SAGAWA (Kyoto University). And I am very grateful to obtain two doctoral degrees from the University of Bordeaux and Kyoto University.



It was really nice and wealth experience to involve in the double doctoral degree program. I would like to thank my supervisors Reiko ODA, Takashi SAGAWA sensei, and all the

two University leaders who conduct the double doctoral degree program. Thanks to the international research collaboration which finally developed into a double doctoral degree program, I have had a chance to experience different studies, life, and culture in different countries.

Firstly, it is a close research collaboration with my research project “Optically active luminescent nanocrystals complexed with chiral silica ribbons”. At Oda’s lab, we are experts on chiral silica ribbons, while at Sagawa sense’s lab, we are good at luminescent nanocrystals. So it is beneficial to conduct the research project and finally we published several articles in high impact factor journals. Also, it broadens my horizon to study at different countries. I can meet with more different researchers who have different majors and also different thinking perspectives. I learn a lot from my two supervisors and group members. Secondly, it is nice to experience different lives in different countries. France and Japan have different cultures, food, landscape.

It is worth making friends in different countries knowing their lifestyles, tasting different delicious food, and visiting different beautiful places in such two enthusiastic and energetic countries.

After one year of study at Kyoto University between 2018 and 2019, I come back to France and finished the rest of study at the University of Bordeaux. It is pity that I have no chance to back to Kyoto University again for the collaboration program or conference because of the Covid-19 pandemic. I am really missing the study and life experience in Kyoto and I am willing to back again to experience all the beautiful memory. Hoping the epidemic end soon and we have more connection in the whole world.



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エネルギー経済分野

Greetings to everyone! My name is Athaya from Indonesia, a master student in Graduate School of Energy Science through Japan ASEAN Collaborative Education Program (JACEP) scholarship – a double degree program between University of Malaya and Kyoto University.

Being one of this program awardees make me beyond grateful as I can experience a remarkable journey between two countries. The development of renewable energy is likely different among countries due to several reasons such as economical background, resources, technological advancement, and culture. Therefore, being able to pursue a master's study in Malaysia and Japan gives me an incredible two-sided perspective. Japan's education is also internationally acknowledged, notably, for the Kyoto University as one of the world's top universities which focused on upgrading research infrastructure on engineering and environment among graduate students with multicultural circumstances. However, things got so much different during my student life due to the pandemic situation – online classes, limited research activities, border restriction. Those unusual circumstances require



me to adapt and manage time wisely. Luckily, my supervisor and other lab members are very helpful even though I have not physically present there, so I do not have big issues to go through my research. In Kyoto University I focus on research topic of energy security in Indonesia as impact of COVID-19 situation.

During my stay in Kuala Lumpur, I spent my spare times to go around Malaysia with other friends. We explore the city and experience local cultures. Those moments will be reminisced forever. Even though I have not been in Kyoto currently, I love that Kyoto is the ancient city with traditional Japanese cultures with developed city center. I adore that the city has numerous temples and palaces as well as peaceful places like gardens.

In a hopeful manner, the experience, professional skill, attitude, and knowledge that I obtain during my proposed study will benefit me greatly in achieving my future success in order to deliver a significant contribution to renewable energy innovation and usefulness for a human being.

Zu Zu May

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エネルギー社会工学分野

My name is Zu Zu May, come from Myanmar, also a double master's degree student under the JACEP scholarship (Japan ASEAN Collaborative Education Program). This program must be one year at the University of Malaya (UM), Malaysia, and one year at Kyoto University (KU), Japan. Although my bachelor's background is Mechanical engineering, graduated from Yangon Technological University (YTU), Myanmar, I just want to join this program due to the simple reason of studying in two different universities of two different countries. I also want to broaden my knowledge on renewable energy, energy security, and policy for the development of my country, Myanmar. However, the Covid 19 has ruined all my dreams at that time. I could not join the second batch of this program although I got this scholarship in November 2019.



At that time, I really felt depressed. But I did not give it up. I joined the third batch again in September 2020 for one semester from my hometown. After that, I could come to Malaysia as the first step of my dream and already finished research in UM in September 2021. I am still in Malaysia waiting for coming to Japan. Moreover, I have already completed one semester at KU through online courses.

Currently, I am doing my research in the department of Social Engineering for Energy System of Graduate School of Energy Science under the supervision of Professor Ishihara. I really want to create a herculean relationship between student and professors because it can enhance the quality of research and projects in the way of cooperating with each other. General consideration made by collaborative advice from different perspective views could bring the research environment advanced. Therefore, I always join the lab meeting every month and got a lot of knowledge and advice from other lab members. Whenever I finish my work or there is something I want to ask about my research, I ask and discuss it with my professor via Evernote, which is very useful software for that kind of pandemic situation, I got the answer quickly back from my professor. Therefore, it is not difficult to communicate with my professor. Then, I planned a schedule to manage my study time for my research. My current research interest in KU is about Energy Security in Energy Generation Mix in Myanmar towards 2050. There are still some issues about policy, knowledge of adopting sustainable and renewable energy in Myanmar.

The role of energy security will be very wide and useful in the future development of Myanmar's energy sectors. Therefore, I believe that my research project will be kind of helpful to my country.

Since I have dedicated my entire life to trying to be the best in everything, I manage my time for both studying and leisure. I love traveling, crocheting, cooking, and handicraft (origami). I always give time to them. I had already traveled to a lot of famous places in Malaysia with my friends during these ten months such as around Kuala Lumpur, Bukit Gasing Hiking, Langkawi Island, Malacca, and Penang. It was really having fun. Now, I stay tuned for Japan. As I am fulfilling my dream of studying abroad day by day in this pandemic situation, I still hope for normal conditions all over the world, no masks, no vaccines, and no disturbances to study and work.





Truong Quoc Huy

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Hi everyone. My full name is Truong Quoc Huy. I am a student of Master of Renewable Energy – Double degree program. I have been studying this program since October 2020 and I am currently in my 2nd year of the program. I joined this program through the introduction of my teacher at Can Tho University. Talking about the Master of Renewable Energy, this course will take 1 (one) year at the University of Malaya, Malaysia and 1 (one) year at Kyoto University, Japan.

There are several reasons that motivated me to join the program. Firstly, when studying in this program, students will study for 2 years in 2 different countries. This helps students like me to experience many cultures, as well as the scientific and technological progress of each country. Second, using renewable energy will be the trend of the future. To be able to put renewable energy into practice, I needed to

understand the principles, properties, and how to operate the associated equipment, and this program has given me what I have mentioned.

While doing research at Malaya University, most of the time was affected by the Covid epidemic, so I could not conduct experiments in the laboratory, but mainly studied the documents of equivalent studies. Fortunately for me, when the deadline for the report was only a few months, the laboratory was allowed to operate, so I promptly arranged the experiment and completed the report on time. During that time, I also regularly sent emails to Professor Kawamoto in Japan. He is very friendly and gives me full support.

I just want to say to new students that if you have a passion for renewable energy and have the ideal of building a green planet, do not hesitate to register for this course to get amazing experiences.

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