

HU-ACE NEWS LETTER

Advanced Core for Energetics, Hiroshima University

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Activities of the Core

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|----------------|----------------------------------------------------------------|
| July 4, 2022 | The 104th HU-ACE Seminar (co-organized) |
| July 4-5, 2022 | The 6th International Symposium on Fuels and Energy (ISFE2022) |
| July 8, 2022 | The 73rd HU-ACE Steering Committee Meeting |

ISFE2022 was successfully held online.

The 6th International Symposium on Fuels and Energy (ISFE2022) hosted by the Advanced Core for Energetics, Hiroshima University (HU-ACE) was held online on July 4th and 5th. Seven invited lectures and 46 oral presentations were given, and in total, 63 people from 9 countries participated. A roadmap for *Hiroshima Scenario*, a scheme to achieve a decarbonized society by 2050, was discussed with advisors of HU-ACE. The participants shared the importance of research and development of various high-efficient energy technologies using biofuels and hydrogen energy. Thermal energy storage may be a possible solution to control the temporal difference between the supply of renewable power and heat demand in the building side.

The organizers deeply appreciate the cooperation of all the participants and collaborators and hope to meet in Higashi-Hiroshima next year.

At last, I would like to inform that HU-ACE will hold regular seminars on ground heat utilization in the demand side. Thank you for your cooperation.



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Member Introduction

No. 34

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Research Strategy and Promotion Division, Headquarters for Research in Collaborative Sciences Enabling the Future, Hiroshima University

Research Field : Sustainability

Keyword : Campus management



Abstract

Greetings

As a result of reorganization in April of this year, the URA Division, which was formerly known as the Office of Research and Academia – Government-Community Collaboration, became the Research Strategy and Promotion Division, Headquarters for Research in Collaborative Sciences Enabling the Future. I have been working as a Research Administrator in this division since April. I am in charge of the Advanced Core for Energetics; the Research Center of Nitrogen Recycling Energy Carrier; international collaborative research; applications for external funding, such as COI-Next this year; and support for engineering programs.

After working at Tohoku University and Hokkaido University, I came to Hiroshima University due to my family's relocation. I am still in the process of networking with faculty members affiliated with Hiroshima University. I believe that networking is the foundation of a research administrator's work, and I look forward to working with you.

Sustainability and University

At Tohoku University's Graduate School of Environmental Studies, I conducted research on promoting the use of renewable energies, such as wood biomass and geothermal energy. In particular, my research focused on the multiple uses of resources in "Satoyama" woodlands, and I had the opportunity to collaborate with researchers of folklore, economics, and ethics. With our dependence on fossil fuels, resources in Satoyama have been unutilized for decades and are losing their functions. The main objective of my research was to connect local Satoyama resources with local communities and to set up a system to resume the use of Satoyama. The research fields were in mid-mountainous areas in Fukushima, Miyagi, and other prefectures.

The experience of conducting fusion research, taking advantage of the structure of the Graduate School of Environmental Studies, and working together with local people on the project were invaluable, as they gave me the opportunity to experience the complexity of sustainability issues firsthand.

Since moving to Hokkaido University in 2012, I have been a member of a steering organization that promotes campus sustainability and has been planning and implementing initiatives to reduce environmental impacts on campuses. One of our important tasks at Hokkaido University was to consider and propose how campus sustainability could be interpreted and take root in Japanese higher education institutions and what kind of initiatives would be appropriate for Japan. The Assessment System for Sustainable Campus (ASSC), currently operated by Hokkaido University and General Incorporated Association Campus Sustainability Network Japan, is one outcome of this work.

Today, with the growing prevalence of the Times Higher Education's University Impact Ranking, promotion of the SDGs is increasingly seen as one of the missions of many universities. Strengthening research capabilities is inextricably linked to increasing environmental impact, and I believe that it will become increasingly important for any university to incorporate excellent management systems and tools that enable them to be compatible.

Biography

Was an Assistant Professor at the Graduate School of Environmental Studies, Tohoku University until 2011. A coordinator/Specially Appointed Associate Professor, Sustainable Campus Management Office at Hokkaido University from 2012 to 2020. Joined Hiroshima University in 2021.