Advanced Core for Energetics, Hiroshima University

# **HU-ACE NEWS LETTER**

Advanced Core for Energetics, Hiroshima University

Activities of the Core		
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	Mar.2,2020	The 83rd Hiroshima University Biomass Evening Seminar (co-organization)
	Mar.13,2020	HU-ACE Independence Symposium was held
	Mar.16,2020	The 22nd Biomass Project Research Center Symposium(co- organization)
	Mar.23,2020	The 43rd HU-ACE Steering Committee Meeting

## **HU-ACE Independent Core Symposium was held**

On March 13, 17th HU-ACE Symposium on its being independent core, "Energy Strategy toward the Era of Carbon Recycle" was held at Hiroshima Garden Palace in Hiroshima City. Following the greetings from Dr. Shin-ichi Tate, administrator and vice president of Hiroshima University and Dr. Keiya Nishida, head of HU-ACE, Dr. Koichi Yamada, Research Advisor, Japan Science and Technology Agency, gave a keynote lecture, and 7 presentations succeeded it. Hiroshima Scenario, which HU-ACE is working out, was introduced as well as various technologies regarding emission reduction, recovery, and utilization of carbon dioxide. The number of participants was limited because of the novel coronavirus, but introduction of the latest and frontier technology and active discussion made the symposium really fruitful. We would like to appreciate cooperation of all related persons.



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HU-ACE Secretariat, Research Planning Office, Hiroshima University, 1-3-2 Kagamiyama, Higashi-Hiroshima, 739-8511 Japan http://home.hiroshima-u.ac.jp/hu-ace/en/

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# **Research** Topics



#### **Autono-MaaS Project**

#### -Towards Smart Town by Autonomous Bus-

#### Akimasa Fujiwara

Professor, Graduate School for International Development and Cooperation

**Research Field**: Transportation Planning, Urban Engineering, Infrastructure Management and Planning

Keywords: Autonomous Bus, MaaS, Ride-share, Smart City, Grocery delivery



### Abstract

#### What is Autono-MaaS?

"Autono-MaaS" is a new term coined by our project team. Recently a mobility revolution is undergoing around our daily life. For example, ride-sharing in which the real-time position of each vehicle is tracked by various ICT (information and communication technology) monitoring technologies and optimally assigned by AI (artificial intelligence) is available in cities over the world. It is known that the increase of a ride shared car means the decrease of 32 conventional cars. Hence it will be effective in mitigating traffic congestion and global warning. MaaS (Mability as a Service) is an urban tool seamlessly connecting the ride-sharing cars and various modes such as bans, motor bikes, bicycles, e-scooters as a service. By implementing such a service in Hiroshima University Campus and Shitami Student Area, it is expected to go ahead a smart city plan that time and space between activities like house-keeping, work and study, by enabling to prepare for a class, to learn for TOEIC test, to see the information of limited-time shops during travelling and so on.

#### Autonomous Bus will be Operated in HU Campus!

Hiroshima University and Higashi-Hiroshima City will collaborate to conduct the three-year project from 2020. After 2023, AB (automatic bus) will be actually implemented around the campus. There would be long-term effects as shown below.

- Travel time is not wasted
- Enable to choose and combine different travel modes depending on trip purposes and conditions
- Accessibility to facilities close to HU campus is improved for everyone including Japanese and foreigners, younger and elder generations
- The risks of traffic accidents and congestions caused by students and residents are alleviated
- Shitami Student Area is reformed as an attractive district of smart city, and a MaaS-oriended development is proceeded

