



1st. International Symposium

On Thursday 15th. December 2022

@Kobe International
Conference Center



Organized By
Tanaka Laboratory
Kwansei Gakuin University (KGU)
Japan

The 1st. STACY International Symposium is supported by JST SICORP Grant Number JPMJSC21C3, Japan.

With the approval of President Osamu Murata, this symposium is endorsed by Kwansei Gakuin University.

STACY

Towards Safe Storage and Transportation of Cryogenic Hydrogen

Through the development of safety technology, improving the public acceptance of liquefied hydrogen, bringing about beneficial effects on the economy and society.

Scope of the Symposium

In order to achieve Carbon Neutrality, expectations for hydrogen are rising all over the world. In particular, cryogenic hydrogen has a high density and excellent economic efficiency and plays a fundamental role in realizing a hydrogen society. Therefore, this symposium is hosted to share information towards developing of safety technology for storage and transportation of cryogenic hydrogen and to improve the general public acceptance.

Access to Venue

Venue: Kobe International Conference Center

The closest station to this venue is 「Shimin Hiroba Station」 on the Port Liner. It takes about 3 minutes on foot from the station to the venue.



Correspondence



URL:
<https://forms.gle/QjZZ8LEc7zWy2wnw8>

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Program

8:30	Registration	Kobe International Conference Center 4F 401+402
Opening & Overview Session, Chaired by Takuro AOTANI		
9:00	Opening Address	Prof. Dr. Osamu MURATA President, Kwansei Gakuin University (KGU), Japan
STACY	Introduction to the STACY project – Towards Safe Storage and Transportation of Cryogenic Hydrogen	Dr. Ernst-Arndt REINECKE Forschungszentrum Jülich GmbH (FZJ), Germany
	WP 1 – Critical review and scenario identification WP 4 – Application: Safety methodology assessment	Dr. Ahmed BENTAIB Institut de Radioprotection et de Sécurité Nucléaire (IRSN), France
	WP 2 – Combustion fundamentals	Dr. Nabih Chaumeix Centre National de la Recherche Scientifique (CNRS), France
	WP 3 – Catalytic recombination	Prof. Dr. Hirohisa TANAKA Kwansei Gakuin University (KGU), Japan
10:35	Coffee Break	Serving drinks (Hot coffee, etc.)
Invited Lectures, Chaired by Kei TANAKA		
10:50	X-ray absorption spectroscopy study at SPring-8 on recombination catalysts for hydrogen safety	Dr. Daiju MATSUMURA Japan Atomic Energy Agency (JAEA), Japan
	Application of the automotive catalyst to the passive autocatalytic recombiner	Mr. Masashi TANIGUCHI Daihatsu Motor Co., Ltd. (DMC), Japan
	Possibilities to maintain the functionality of catalysts for hydrogen recombination under harsh conditions	Dr. Jürgen DORNSEIFFER Chemical Consulting Dornseiffer (CCD), Germany
	Practical aspects of hydrogen recombiners	Dr. Christel HARMS Hawker GmbH, Germany
	Air Liquide activities on liquid hydrogen and associated safety development	Dr. Simon JALLAIS Air Liquide R&D, France
12:30	Lunch	Serving Japanese "BENTO (Lunch Box)"
Liquefied Hydrogen Sessions, Chaired by Takumi ICHIKAWA		
13:20	Invited Lecture Kawasaki Hydrogen Road	Dr. Katsuya MORIMOTO Associate Officer, Hydrogen Strategy Division, Kawasaki Heavy Industries, Ltd. (KHI), Japan
	Interim Closing Remarks	Mr. Sogo IWATA Tanaka Laboratory Kwansei Gakuin University (KGU), Japan
	Guidance for facility (CGS & Liq-H ₂ Receiving Terminal)	Mr. Suguru OYAMA Kawasaki Heavy Industries, Ltd. (KHI), Japan
	Tour Introduction	Mr. Ryusei UENO Tanaka Laboratory Kwansei Gakuin University (KGU), Japan
14:30	Bus Tour to Liq-H ₂ Facilities	1. Hydrogen co-generation system 2. Liquefied Hydrogen Receiving Terminal Through the courtesy of Kawasaki Heavy Industries
Opinion Exchange Meeting		
17:30	Reception	Enjoy buffet meals & the night view

Facilities (Liquefied Hydrogen Excursion)

• Hydrogen Co-generation System

The world's first facility to supply heat and power from a 100% hydrogen-fueled gas turbine in urban areas.



• Liquefied Hydrogen Receiving Terminal

World's largest spherical storage tank for stable storage of liquefied hydrogen, with a capacity of 11,200 cubic meters.

Source of Photo :

<https://www.khi.co.jp/hydrogen/>
<https://www.hystra.or.jp/news/article.html#news12>