

# GXI-ZES

14<sup>th</sup>-16<sup>th</sup> January, 2025

International Symposium on Green Transformation Initiative and  
Innovative Zero-Carbon Energy Systems

Institute of Science Tokyo, Japan

## Closing Remarks

### Hiroshi Sagara, Chair

Laboratory for Zero-Carbon Energy  
Institute of Integrated Research,  
Institute of Science Tokyo



Institute of  
**SCIENCE TOKYO**

- **GXI-ZES held on 14 – 16 January, 2025 at Science Tokyo aims at discussing the latest research activities relevant to the development of green transformation technology and innovative zero-carbon energy systems, which shall be the technologies to supply energy for a carbon-neutral society, including zero-carbon energy, energy carrier, climate change mitigation, carbon neutral and innovative nuclear energy technologies within a broad perspective.**
- **The goal is to visualize and share a new stage of the green transformation technologies and zero-carbon energy system technologies for a carbon-neutral society.**
- **The special collaboration sessions with MIT, EPRI and DLR was organized.**

# Participants

## ● Total: 207

■ Plenary Lecturers/Guests:	18
■ Regular:	61
■ GXI Member:	26
■ Student Presenter:	66
■ Student Observer:	36

## ● Countries/Regions

■ Japan:	189
■ USA:	5
■ ROK:	5
■ Indonesia:	3
■ Germany:	2
■ Taiwan:	1
■ Poland:	1
■ Philippines	1

# Opening Speech, Plenary Lectures

## ● 14th January

### ■ Opening Speech

- Prof. Yukitaka Kato, Science Tokyo
- Prof. Naoto Ohtake, Science Tokyo
- Mr. Takatsugu Ryuzaki, METI
- Mr. Koji Yanagisawa, MEXT

### ■ MIT Session on Decarbonization

- Prof. William H. Green, MIT
- Prof. Jacopo Buongiorno, MIT
- Dr. Masami Takenaka, Asahi Kasei Corporation
- Dr. Koichi Izumiya, Kanadevia Corporation

# Plenary Lectures

## ● 15th January

- EPRI Session on Energy Carrier
  - Mr. Jeffery Preece, EPRI
  - Mr. Neil Kern, EPRI
  - Prof. Hiroshi Asano, CRIEPI
  - Prof. Takeo Yamaguchi, Science Tokyo

# Plenary Lectures

## ● 16th January

- DLR Session on Energy Storage
  - Dr. Thomas Bauer, DLR
  - Dr. Inga Bürger, DLR
  - Prof. Takahiro Nomura, Hokkaido Univ.
  - Prof. Hajime Arai, Science Tokyo
- GXI VISION 2050 Session
  - Prof. Yukitaka Kato, Science Tokyo
  - Dr. Keigo Akimoto, RITE
  - Prof. Takao Nakagaki, Waseda Univ.
  - Prof. Kenji Takeshita, Science Tokyo

# Presentations

## ● Total: 111

■ Plenary: 16, Oral: 46, Poster: 49

## ● Topics (in oral/poster presentations)

1. Green Transformation and Zero-Carbon Energy System Technologies: 24
2. Innovative nuclear energy technologies: 18
3. Energy storage and transformation technologies: 19
4. Energy carriers: 3
5. Material recycling technologies for energy systems: 9
6. Innovative nuclear applications: 16
7. Energy Policy and Economics: 6

# Poster Session

- **Short presentations and the session on 15th Jan.**
- **Presentation Awards to the selected presenters**



# Proceedings of Abstracts

- **Proceedings of abstracts of GXI-ZES is available by online for all participants**

<https://gxi-zes.org/exabst/index.html>

- **Access ID and password are sent by Email to all participants**

# Summary

- We had excellent lectures, presentations, and a lot of discussions about the latest research activities relevant to the development of green transformation technology and innovative zero-carbon energy systems that enabled visualization and sharing of a new stage of the green transformation technologies and zero-carbon energy system technologies for a carbon-neutral society
- It fostered networking between industry, academia and government
- The chair believes the aim of the symposium was achieved successfully

# Special Thanks

- The chair deeply appreciate
  - Organizing Committee
    - ZC, Science Tokyo
    - Science Tokyo GXI
  - Steering Committee
  - Technical Program Committee
  - Plenary Lecturers, MIT, EPRI, DLR and all
  - All Presenters in Oral and Poster sessions
  - Supporters, 20 Domestic/International Organizations
  - All Staff Members including Faculties, Staffs and Students

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**Thank you!**  
**See you next time!**



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