



International Symposium on Green Transformation Initiative and Innovative Zero-Carbon Energy Systems (GXI-ZES)

Program

(2025.1.17 ver)

14th January – 16th January, 2025 Institute of Science Tokyo, Japan

Organized by:

- Organizing Committee of GXI-ZES
- Laboratory for Zero-Carbon Energy (ZC), Institute of Integrated Research (IIR), Institute of Science Tokyo
- Green Transformation Initiative at Science Tokyo (Science Tokyo GXI)

Welcome to GXI-ZES

On behalf of the symposium, I thank deeply all presenters and participants on the International Symposium on Green Transformation Initiative and Innovative Zero-Carbon Energy Systems, GXI-ZES, Tokyo, on January 14th -16th, 2025.

Green Transformation Initiative, that is, Science Tokyo GXI in the Institute of Science Tokyo* was established in 2022 as a Mission Realization Acceleration Funding Project of the Ministry of Education, Culture, Sports, Science and Technology.



GXI aims to realize Green Transformation (GX) technologies to achieve CN through open innovation in industry, government, academia and public sector collaboration. This symposium GXI-ZES was organized by GXI, Institute of Integrated Research, and Science Tokyo for enhancement of the innovations.

GXI-ZES aims at discussing the latest research activities relevant to the development of GX technologies and innovative zero-carbon energy systems, which shall be the technologies for a carbon-neutral society, including zero-carbon energy, energy storage, energy carrier, climate change mitigation, carbon neutral and innovative nuclear energy and application technologies within a broad perspective. The goal is to visualize and share a new stage of the GX technologies and zero-carbon energy system technologies.

The symposium programs the special collaboration sessions organized with Massachusetts Institute of Technology (MIT), Electric Power Research Institute (EPRI), and German Aerospace Center (Deutsches Zentrum für Luft- und Raumfahrt, DLR) for the GX key subjects of the decarbonization, the energy carrier and the energy storage, respectively. GXI has been submitted a position paper of "GXI VISION 2050" in this September, then, GXI VISION 2050 session is set in the last day.

GX technology cannot be advanced through the efforts of individuals or companies alone. I believe that it can be solved by many people working together and demonstrating their individual abilities. I hope that this conference will be the start of that solution. I greatly appreciate all of you for your great contribution to the GXI-ZES. I hope that all participants will deepen their exchanges in order to achieve CN.



Yukitaka Kato, General Chair of GXI-ZES

*Institute of Science Tokyo, Science Tokyo, was born by the integration between Tokyo Institute of Technology and Tokyo Medical and Dental University in 2024.

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Supported by:

- MIT Energy Initiative (MITEI)
- MIT Center for Advanced Nuclear Energy Systems (MIT-CANES)
- Electric Power Research Institute, Inc. (EPRI)
- Deutsches Zentrum für Luft- und Raumfahrt (DLR)
- Japan Atomic Energy Commission (JAEC)
- Japan Atomic Energy Agency (JAEA)
- Atomic Energy Society of Japan (AESJ)
- The Chemical Society of Japan (CSJ)
- The Electrochemical Society of Japan (ECSJ)
- The Heat Transfer Society of Japan (HTSJ)
- Institute of Nuclear Materials Management Japan Chapter (INMMJ)
- The Iron and Steel Institute of Japan (ISIJ)
- Japanese Society of Radiation Chemistry (JSRC)
- Japan Fine Ceramics Association (JFCA)
- The Japan Society for Analytical Chemistry (JSAC)
- Japan Society of Energy and Resources (JSER)
- The Japan Society of Plasma Science and Nuclear Fusion (JSPF)
- The Society of Chemical Engineers, Japan (SCEJ)
- Science Tokyo Academy for Convergence of Materials and Informatics (TAC-MI)
- Science Tokyo InfoSyEnergy Research and Education Consortium / School of Academy of Energy and Informatics (ISE)

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GXI-ZES Symposium Schedule:

Day 1

	Room1:Hall	Room2	Room3
	Digital multi-purpose hall (No eating or drinking)	Collaboration room	W8-10F Conference room
	W9-bldg.	W9-bldg.	W8-bldg.
8:00			
	Registration		
	8:15-9:00		
9:00	Opening Ceremony		
	General Chair Prof. Yukitaka Kato		
	President &CEO Prof. Naoto Ohtake		
	METI, Mr. Takatsugu Ryuzaki		
	MEXT, Mr. Koji Yanagisawa		
	Photo Session 9:30-10:00		
10:00	MIT Session on Decarbonization		
10:00	Plenary Lecture MIT-1 : Prof.William H. Green		
	Plenary Lecture MIT-2 : Prof.Jacopo Buongiorno		
	Flenary Lecture Wiff -2 . Froi.Jacopo Buorigiomo		
11:00	10min Break		
	Plenary Lecture MIT-3:		
	Dr. Masami Takenaka, Asahi Kasei Corporation Plenary Lecture MIT-4:		
	Dr. Koichi Izumiya, Kanadevia Corporation		
	Panel talk 20min		
12:00	Patier talk 2011III		
		12:10-13:30	
		Lunch (80 min)@Tsubame Terrace	
13:00			
	10.00.11.00.0 : 1/(0.1)	140.00.44.00.0	140.00.44.00.0 : 7(407)
	13:30-14:30 Session 1(1S1)	13:30-14:30 Session 4(1S4)	13:30-14:30 Session 7(1S7)
	Decarbonizaton technique-1	Innovative reactors and fuels-1	Decontamination of Radioactive Wast
14:00	Abstract No.17(1S1-1)	Abstract No.25(1S4-1)	Abstract No.30(1S7-1)
	Abstract No.49(1S1-2)	Abstract No.39(1S4-2)	Abstract No.27(1S7-2)
	Abstract No.102(1S1-3) 10min Break	Abstract No.103(1S4-3)	Abstract No.10(1S7-3)
	14:40-15:40 Session 2(1S2)	14 40 40 00 0	14:40-15:40 Session 8(1S8)
	Decarbonizaton technique-2	14:40-16:00 Session 5(1S5)	Radiochemistry and Nuclear Medicine
15:00	Abstract No.24(1S2-1)	Innovative reactors and fuels-2	Abstract No.92(1S8-1)
	Abstract No.47(1S2-1)	Abstract No.15(1S5-1)	Abstract No.6(1S8-2)
	Abstract No.100(1S2-3) withdraw	Abstract No.46(1S5-2)	Abstract No.95(1S8-3)
	10min Break	Abstract No.34(1S5-3)	10min Break
		Abstract No.94(1S5-4) withdraw	15:50-17:10 Session 9 (1S9)
16:00	15:50-17:30 Session 3(1S3)	10min Break	Radiochemistry and Nuclear Medicine
	Batteries and Energy carriers	16:10-17:10 Session 6(1S6)	Abstract No.33(1S9-1)
	Abstract No.56(1S3-1)	Novel Radionuclide Separation	Abstract No.81(1S9-1) Abstract No.81(1S9-2)
	Abstract No.38(1S3-2)	Abstract No.89(1S6-1)	Abstract No.78(1S9-2)
	Abstract No.42(1S3-3)	Abstract No.93(1S6-2)	Abstract No.64(1S9-4)
	Abstract No.29(1S3-4)	Abstract No.91(1S6-3)	7.03(1act 140.04(103-4)
17:00			
17:00	Abstract No.61(1S3-5)		
17:00			

Day 2

		Room1:Hall	Room2	Room3
		Digital multi-purpose hall (No eating or drinking) W9-bldg.	Collaboration room W9-bldg.	W8-10F Conference room W8-bldg.
_	8:00			
5		Registration 8:15-9:00	8:30-9:00	
We	9:00	EPRI Session on Energy Carrier Plenary Lecture EPRI-1: Jeffery Preece Plenary Lecture EPRI-2: Neil Kern		
125	10:00	10min Break Plenary Lecture EPRI-3: Prof. Hiroshi Asano, Central Research Institute of Electric Power Industry Plenary Lecture EPRI-4: Prof. Takeo Yamaguchi, Science Tokyo		
9	11:00	Panel Talk 20 min		
N		10min Break		
Ď,		Poster short presentation		
January 15, 2025 Wed.	12:00	(90 seconds each) 11:20-13:00		
<u>a</u>	13:00		13:00-14:00 Poster preparation	
<u> </u>			Lunch (60min) @Tsubame Terrace	
			13:00-14:00	
Jar	14:00		Poster preparation Poster session 1 (odd) (60min) 14:00-15:00	
2	15:00		Poster session 2 (even) (60min) 15:00-16:00	
Day 2	16:00	Day 2 End 16:00		
	17:00			
		Rece	ption Party start 18:00@ the Prince Park Tower	Гокуо

Day 3

		Room1:Hall	Room2	Room3
		Digital multi-purpose hall (No eating or drinking) W9-bldg.	Collaboration room W9-bldg.	W8-10F Conference room W8-bldg.
	8:00	Registration 8:15-9:00		
[hur	9:00	DLR Session on Energy Storage Plenary Lecture DLR-1:Dr. Thomas Bauer Plenary Lecture DLR-2:Dr. Inga Bürger		
25 T	10:00	10min Break Plenary Lecture DLR-3: Prof. Takahiro Nomura, Hokkaido University Plenary Lecture DLR-4: Prof. Hajime Arai, Science Tokyo Panel Talk 20 min		
, 20	11:00	20 min break 11 : 30-12 : 30 Session 10(3S10) Green inorganic materials	11 : 30-12 : 30 Session 12(3S12) Nuclear Reactions and Applications-1	11:30-12:30 Session 14(3S14) Energy Policy, Economics, Material Recycling-1
, 16	12:00	Abstract No.53(3S10-1) Abstract No.54(3S10-2) Abstract No.26(3S10-3)	Abstract No.70(3S12-1) Abstract No.28(3S12-2) Abstract No.74(3S12-3)	Abstract No.40(3S14-1) Abstract No.20(3S14-2) Abstract No.99(3S14-3)
lary	13:00	13 : 30-14 : 30 Session 11(3S11)	Lunch (60min) @Tsubame Terrace 13: 30-14: 10 Session 13(3S13)	13 : 30-14 : 30 Session 15(3S15)
Jan	14:00	Thermal Storage and Use — Abstract No. 44(3S11-1) Abstract No. 48(3S11-2) Abstract No. 71(3S11-3) 10 min Break 14:40-16:00	Nuclear Reactions and Applications-2 Abstract No.50(3S13-1) Abstract No.73(3S13-2)	Energy Policy, Economics, Material Recycling-2 Abstract No.65(3S15-1) Abstract No.68(3S15-2) Abstract No.12(3S15-3)
Day 3 January 16, 2025 Thur.	15:00	GXI VISION 2050 Session Prof. Yukitaka Kato, Science Tokyo Dr. Keigo Akimoto, RITE Prof. Takao Nakagaki, Waseda University Prof. Kenji Takeshita, Science Tokyo		
Da	16:00	16:00-16:30 Report of GXI-ZES Closing Ceremony, Student Award Day 3 End 16:30		
	17:00	_ Day 3 End 16:30		

Program

Day 1

8:15- **Registration**

Room 1: Multi-Purpose Digital Hall (West Bldg. 9)

9:00-9:30 **Opening Ceremony**Chair: Prof. Hiroshi Sagara

Prof. Yukitaka Kato, General Chair of GXI-ZES, Science Tokyo

Prof. Naoto Ohtake, President and CEO. of Science Tokyo

Mr. Takatsugu Ryuzaki, Director-General for Green Transformation Acceleration,

Director-General, GX Policy Group, Minister of Economy, Trade and Industry

Mr. Koji Yanagisawa, Director, University Research Facilitation Division, Research

Promotion Bureau, Ministry of Education, Culture, Sports Science & Technology

9:30-10:00 **Photo Session**

10:00-11:00 MIT Session on Decarbonization

Chair: Prof. Yoichi Murakami

MIT-1: Energy Transition Challenges for the Engineering Community

Prof. William H. Green, Hoyt C. Hottel Professor of Chemical Engineering, Director of MIT

Energy Initiative, Massachusetts Institute of Technology

MIT-2: Nuclear Energy: Have We Entered a New Era?

Prof. Jacopo Buongiorno, Dept. of Nuclear Science and Engineering, Center for Advanced

Nuclear Energy Systems (CANES), Massachusetts Institute of Technology

11:00-11:10 Break

11:10-12:10 MIT Session on Decarbonization

Chair: Prof. Yoichi Murakami

MIT-3: Decarbonization with Green Hydrogen Production, Bio Process, and CO₂

Capture/Utilization Technologies

Dr. Masami Takenaka, Green Solution Project, Asahi Kasei Corporation

MIT-4: Development of Power to Gas Technologies with Methanation and Water

Electrolysis for Implementation of Carbon-Neutral Society

Dr. Koichi Izumiya, Decarbonization Systems Business Unit, Carbon Neutral Solution

Business Headquarters, Kanadevia Corporation

With Panel Talk

12:10-13:30 Lunch Break @Tsubame Terrace

1S1	Decarbonization technique-1
Chair:	Prof. Tohru S. Suzuki
13:30-13:50	1S1-1 Molecular Design with Generative AI for CO ₂ Capture
	Adroit Fajar, Guillaume Lambard
13:50-14:10	1S1-2 Molten lithium-sodium orthoborate: a high capacity ionic oxide for carbon
	capture
	David Unnervik, Takuya Harada
14:10-14:30	1S1-3 The Challenge of Japanese Steel Industry to achieve Carbon Neutrality
	Hideki Murakami
14:30-14:40	Break
1S2	Decarbonization technique-2
Chair:	Prof. Adroit Fajar
14:40-15:00	1S2-1 Mechanochemistry side by side with the environment. Green and organocatalytic
	alternative for the synthesis of β -sulfenylated compounds
	Kamil Hanek, Patrycja Żak, Dawid Frąckowiak
15:00-15:20	1S2-2 Development of Chemical Looping Combustion Poly-Generation Technology
	Tomonao SAITO, Shi-Ying LIN, Junichiro OTOMO
15:20-15:40	1S2-3 Withdraw
15:40-15:50	Break
1S3	Batteries and Energy carriers
Chair:	Prof. Shintaro Yasui
15:50-16:10	1S3-1 High ion conductivity in textured lanthanum silicate oxyapatite fabricated by slip
	casting in a strong magnetic field
	TI CC 1' V' 1' V I 1' T / III'I 1'
	Tohru S. Suzuki, Kiyoshi Kobayashi, Tetsuo Uchikoshi
16:10-16:30	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage
16:10-16:30	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage alloy against CO ₂ impurity
16:10-16:30	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage
16:10-16:30 16:30-16:50	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage alloy against CO ₂ impurity
	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage alloy against CO ₂ impurity K. Shinzato, V. Charbonnier, H. Cho, E.S. Cho, P. Á. Szilágyic, H. Kim, K. Asano, K. Sakaki
	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage alloy against CO ₂ impurity K. Shinzato, V. Charbonnier, H. Cho, E.S. Cho, P. Á. Szilágyic, H. Kim, K. Asano, K. Sakaki 1S3-3 High-performance photon upconverting solid-state materials to increase solar
	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage alloy against CO ₂ impurity K. Shinzato, V. Charbonnier, H. Cho, E.S. Cho, P. Á. Szilágyic, H. Kim, K. Asano, K. Sakaki 1S3-3 High-performance photon upconverting solid-state materials to increase solar utilization efficiencies in broad applications
16:30-16:50	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage alloy against CO ₂ impurity K. Shinzato, V. Charbonnier, H. Cho, E.S. Cho, P. Á. Szilágyic, H. Kim, K. Asano, K. Sakaki 1S3-3 High-performance photon upconverting solid-state materials to increase solar utilization efficiencies in broad applications Riku Enomoto, Yoichi Murakami
16:30-16:50 16:50-17:10	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage alloy against CO ₂ impurity K. Shinzato, V. Charbonnier, H. Cho, E.S. Cho, P. Á. Szilágyic, H. Kim, K. Asano, K. Sakaki 1S3-3 High-performance photon upconverting solid-state materials to increase solar utilization efficiencies in broad applications Riku Enomoto, Yoichi Murakami 1S3-4 Materials development for hydrogen compressors using hydrogen storage materials Kouji Sakaki, Veronique Charbonnier, Keita Shinzato, Hyunjeong Kim, Kohta Asano
16:30-16:50	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage alloy against CO ₂ impurity K. Shinzato, V. Charbonnier, H. Cho, E.S. Cho, P. Á. Szilágyic, H. Kim, K. Asano, K. Sakaki 1S3-3 High-performance photon upconverting solid-state materials to increase solar utilization efficiencies in broad applications Riku Enomoto, Yoichi Murakami 1S3-4 Materials development for hydrogen compressors using hydrogen storage materials Kouji Sakaki, Veronique Charbonnier, Keita Shinzato, Hyunjeong Kim, Kohta Asano 1S3-5 Facile synthesis of effective cellulose-based anion exchange membrane for alkaline
16:30-16:50 16:50-17:10	1S3-2 Improvement of hydrogen storage performance of AB ₂ -type hydrogen storage alloy against CO ₂ impurity K. Shinzato, V. Charbonnier, H. Cho, E.S. Cho, P. Á. Szilágyic, H. Kim, K. Asano, K. Sakaki 1S3-3 High-performance photon upconverting solid-state materials to increase solar utilization efficiencies in broad applications Riku Enomoto, Yoichi Murakami 1S3-4 Materials development for hydrogen compressors using hydrogen storage materials Kouji Sakaki, Veronique Charbonnier, Keita Shinzato, Hyunjeong Kim, Kohta Asano

Room 2:	Collaboration	Room	(West	Rldo	9)
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Room 2: Colla	aboration Room (West Bldg. 9)			
1S4	Innovative Reactors and Fuels-1			
Chair:	Dr. Jason Hearne			
13:30-13:50	184-1 Safety Properties of High-Temperature Gas-Cooled Reactor Core Layouts to			
	Directly Reuse HALEU Spent Fuel			
	Hong Fatt Chong, Hiroshi Sagara			
13:50-14:10	184-2 Recycling RepU Containing Unseparated Np-137 to Improve the Sustainability			
	and Proliferation-Resistance of Sodium-Cooled Fast Reactor Fuel Cycles			
	Eva Lisowski, Hiroshi Sagara			
14:10-14:30	184-3 Contribution of HTGR hydrogen production technology toward decarbonization			
	in the ironmaking sector			
	Hiroki Noguchi, Katsunori Ishii, Masato Ono, Hiroyuki Sato, Nariaki Sakaba, Yukitaka Kato			
14:30-14:40	Break			
1S5	Innovative Reactors and Fuels-2			
Chair:	Dr. Hiroki Noguchi			
14:40-15:00	185-1 Scattering models and intrinsic neutron sources in molten salt fueled reactors			
	Jason Hearne			
15:00-15:20	185-2 Offshore Floating Nuclear Power Plant From Fukushima Dai-Ichi Accident			
	Takafumi Anegawa			
15:20-15:40	185-3 Neutronic Analysis and Optimization of a 100 MWe Modular Molten			
	Salt Reactor for Archipelagic Regions			
	Cici Wulandari, Marisa Variastuti, Sidik Permana, Dwi Irwanto, Abdul Waris			
15:40 -16:00	185-4 Withdraw			
16:00-16:10	Break			
1S6	Novel Radionuclide Separation			
Chair:	Prof. Takuya Harada			
16:10-16:30	186-1 Development on Mutual Separation of Lanthanides by Stimuli-Responsive			
	Binary Polymer Brushes			
	Tommy Suhartono Wijaya Tan, Naokazu Idota, Takehiko Tsukahara			
16:30-16:50	1S6-2 Material Balance in MA Separation and Recycling for Environmental Load			
	Reduction in Nuclear Fuel Cycle			
	Chi Young HAN, Hiroshi SAGARA, Hidekazu ASANO			
16:50-17:10	186-3 Development of Spiropyran-Based Photoswitchable Adsorbents for Selective			

Recovery of Lanthanide ions

Kai Peng, Naokazu Idota, Takehiko Tsukahara

Room 3: Conference Room	(West Bldg.8. 10F))
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Room 3: Conte	rence Room (West Blag.s. 10F)					
1S7	Decontamination of Radioactive Wastes					
Chair:	Prof. Masahiko Nakase					
13:30-13:50	187-1 Titanium modified adsorbent for radioactive liquid waste with easy handling					
	throughout its life cycle, Properties of operation and after use					
	Yoshikazu Koma, Youko Takahatake, Sou Watanabe, Tsuyoshi Arai, Jun Hashimoto, Kaname					
	Kubo, Masashi Kaneko					
13:50-14:10	187-2 Titanium modified adsorbent for radioactive liquid waste with easy handling					
	throughout its life cycle -Sorption Behavior of Plutonium and Americium-					
	Jun-ya Ibe, Hiroshi Hinai, Youko Takahatake, Sou Watanabe, Kimihiko Yano, Yoshikazu Koma,					
	Jun Hashimoto					
14:10-14:30	187-3 Titanium modified adsorbent for radioactive liquid waste with easy handling					
	throughout its life cycle -Evaluation of basic adsorption properties and stability-					
	Tsuyoshi Arai, Michika Kawaguchi, Youko Takahatake, Sou Watanabe, Yoshikazu Koma					
14:30-14:40	Break					

1S8 Radiochemistry and Nuclear Medicine-1

Chair: Dr. Yoshikazu Koma

14:40-15:00 **1S8-1** Evaluation of Leaching Behavior of Uranium from Simulated Fuel Debris Using

Microfluidic Devices

Tongyu Xu, Naokazu Idota, Yuma Dotsut, Yukihiko Sato, Toru Kitagaki, Takehiko Tsukahara

15:00-15:20 1S8-2 Microfluidic Analysis of Aggregation and Dissolution Behaviour of Cerium

Oxide Nanoparticles Generated from Nuclear Fuel Debris

Yiwei Zhang, Cong Chao, Angeli Pangiota, Naokazu Idota, Miguel Pineda, Eric Fraga,

Takehiko Tsukahara

15:20-15:40 188-3 Optimizing Dose Evaluation of Targeted Alpha Therapy with Experiments and

Simulation

Yumin HUANG, Tetsuya Sakashita, Yasuhiro Ohshima, Ichiro Sasaki, Noriko S. Ishioka,

Yoshihisa Matsumoto

15:40-15:50 Break

1S9 Radiochemistry and Nuclear Medicine-2

Chair: Prof. Tsuyoshi Arai

15:50-16:10 **1S9-1** Radionuclide Distribution And Geochemical Analysis In Mamuju Regency:

Investigating Indonesia's Most Radioactive Region

Adi Rahmansyah Amir Abdullah, Sidik Permana, Wahyu Srigutomo, Alan Maulana, Eka Djatnika Nugraha, Dwi Irwanto, Cici Wulandari, Haryo Seno, Dikdik Sidik Purnama, Ismail Humolungo, Zulfahmi

16:10-16:30

189-2 Creation of Graphene-Macrocycle Hybrid Nanomaterials and Its Application to Cesium Separation

XU JIAWEI, Naokazu Idota, Takehiko Tsukahara

16:30-16:50

189-3 Microfluidic Approach for Efficient Cesium Separation Using Deep Eutectic Solvents

Xinyi Qian, Naokazu Idota, Takehiko Tsukahara

16:50-17:10

189-4 Deciphering the mechanisms of PNKP regulation toward improvement of cancer radiotherapy

Lingyan Fu,Rikiya Imamura, Tomoko Miyake, Kaima Tsukada, Yoshihisa Matsumoto, Mikio

Shimada

Day 2

8:15- **Registration**

Room 1: Multi-Purpose Digital Hall (West Bldg. 9)

9:00-10:00 **EPRI Session on Energy Carrier**

Chair: Prof. Hiroki Takasu

EPRI-1: Perspectives on Policy Gaps and Drivers to Accelerate Adoption of Low-Carbon

Fuels in Hard-to-Decarbonize Areas of the Economy

Jeffery Preece, Electric Power Research Institute

EPRI-2: Perspectives on Technology Gaps and Drivers to Accelerate Adoption of Low-

Carbon Fuels in Hard-to-Decarbonize Areas of the Economy

Neil Kern, Electric Power Research Institute

10:00-10:10 Break

10:10-11:10 **EPRI Session on Energy Carrier**

Chair: Prof. Hiroki Takasu

EPRI-3: Green Growth Strategy Toward Net-Zero Emissions Energy Systems

Prof. Hiroshi Asano, Specially Appointed Professor for the Laboratory for Zero-Carbon Energy, Institute of Integrated Research, Institute of Science Tokyo; Professor at Gifu

Renewable Energy System Research Center, Gifu University; Research Advisor for the Central

Research Institute of Electric Power Industry

EPRI-4: Necessity of a Hydrogen Society and Recent Development of AEM Water

Electrolysis

Prof. Takeo Yamaguchi, Laboratory for Chemistry and Life Science, Institute of Integrated

Research, Institute of Science Tokyo

With Panel Talk

11:10-11:20 Break

11:20-13:00 **Poster Short Presentation (2P01 ~ 2P51)**

Chair: Prof. Jun Hasegawa, Prof. Mikio Shimada

13:00-14:00 Lunch Break @Tsubame Terrace

Room 2: Collaboration Room (West Bldg. 9)

8:30-9:00 and 13:00-14:00	Poster Preparation (2P01 ~ 2P51)
13:00-14:00	Lunch Break @Tsubame Terrace
2P01 ~ 2P51	Poster Session
14:00-15:00	Poster Preparation (ODD)
15:00-16:00	Poster Preparation (EVEN)
2P01	Quantum beam analysis of fuel cell materials for automotive applications Wataru Yoshimune
2P02	Osmotic power generation by mixing freshwater and saltwater: its domestic potential analysis Kotomi Watanabe and Hiroyuki Shima
2P03	Experimental evaluation of an indirect heated fixed-bed reactor with calcium hydroxide for thermal energy storage
	Tsuyoshi Izaki, Hana Saeki, Tsukasa Sugiyama, Kenta Tomita, Kyosuke Mochizuki, Shigehiko Funayama, Takashi Kato, Hiroki Takasu, Yukitaka Kato
2P04	Development of metal composite H ₂ -permeable membranes by a reverse build-up method Yoshinari Hozumi, Ryu Hamamura, Sou Niwa, Shigehiko Funayama, Hiroki Takasu, Yukitaka Kato
2P05	Development of Metal-Supported Solid Oxide Electrolysis cell as carbon dioxide reduction technology for carbon recycling
	Daisuke Moritomo, Rikuya Miyazaki, Yoshino Ikeda, Daiki Teshima, Yukitaka Kato, Hiroki Takasu
2P06	Impact of Uranium-silicide fuels on simultaneous enhancement of nuclear safety-security features and fuel lifetime extension in large scale LWRs
	Mori Yusuke, Sagara Hiroshi, Chong Hong Fatt
2P07	Numerical validation of calcium oxide-based composites in an indirect fixed-bed reactor for
	thermochemical energy storage
	Hana Saeki, Tsukasa Sugiyama, Tsuyoshi Izaki, Kenta Tomita, Soichiro Tamano, Shigehiko
2P08	Funayama, Takashi Kato, Hiroki Takasu, Yukitaka Kato Development of MgO-based carbon dioxide sorption material in presence of water vapor for
21 00	Zero-Carbon Energy System
	Yudai Yugami, Shigehiko Funayama, Hiroki Takasu, Yukitaka Kato
2P09	Application of LED 365 nm UV curing technology in anti-corrosion and thermal insulation
	coatings: Promoting energy efficiency and sustainable practices
	Wei-Jun Chen, Yung-Chung Chen
2P010	Safeguards by design of sodium-cooled fast reactor with online re-fueling function

	Shotaro Terayama, Hiroshi Sagara, Lisowski Eva
2P011	Preparation of Amorphous SiO ₂ Coated Li ₄ Ti ₅ O ₁₂ Anode and Their High Cycleability
	Ryota Nomura, Yoshinao Kobayashi and Shintaro Yasui
2P012	Investigation of novel composite solid electrolytes for sodium ion batteries
	Sosuke Takei, Rei Esaki, Ryota Nomura, Koki Imabayashi, Yoshinao Kobayashi, Shintaro Yasui
2P013	Novel sodium composite solid electrolyte formed by aqueous slurry
	Rei Esaki, Sosuke Takei, Ryota Nomura, Koki Imabayashi, Yoshinao Kobayashi, Shintaro Yasui
2P014	Modification Mechanisms of Alumina Inclusions in Molten Steel by Calcium Treatment
	Yuxing Liu, Shintaro Yasui, Yoshinao Kobayashi
2P015	Antiferroelectric Response of Titanite Film for High-voltage Energy Storage Application
	Yang Weirong, Kuwano Taro, Taniguchi Hiroki, and Yasui Shintaro
2P016	Preliminary analysis of the passive autonomous load following characteristics in the primary
	circuit of a small PWR
	XU Zongyu, Hiroki Takezawa
2P017	Estimating the origin of reprocessed Pu for Nuclear Forensics
	Hayato Sato, Hiroshi Sagara, Chi Young Han, Yoshiki Kimura, Kosuke Tanabe
2P018	Development of composite materials using calcium oxide for CO2 capture and storage
	applications
	Kenta Tomita, Tsuyoshi Izaki, Guo Yue, Shigehiko Funayama, Hiroki Takasu, Yukitaka Kato
2P019	Applicability of passive neutron non-destructive assay technique -DDSI method- for Pu
	quantification in advanced fuels
	Aya Egchi, Hiroshi Sagara, Matsumi Mitsuboshi, Taketeru Nagatani
2P020	Evaluation of Cathode α-NaFeO ₂ for Sodium-Ion Batteries
	Koki Imabayashi
2P021	Magnetic flux pinning by adding oxide nanoparticles to superconducting Bi-2223 and Y-123
	bulks
	Hiroshi Yamada
2P022	Spectroscopic Study of Rotational Temperatures CO-Excited States in Microwave Discharge
	CO ₂ Plasma
	Hiroshi Akatsuka, Shota Yamada, Yuki Morita, Atsushi Nezu
2P023	Numerical Analysis of Plasma Based Ion Implantation Using Drifting Plasma
	Keisuke Noguchi, Shuta Mukoda, Jun Hasegawa
2P024	Effect of Magnetic Focusing on Ion Momentum Distribution in Laser-Produced Plasma
	Koki Yokoi, Yi-Ming Kao, Jun Hasegawa
2P025	Thermal and mechanical properties of AlN ceramics sintered with yttrium- and fluoride-
	based additives
	Katsumi Yoshida, Akira Murata, Ying Chung, Anna Gubarevich, Kinya Miyashita
2P026	Fabrication of texture-controlled Al4SiC4 ceramics by slip casting and their mechanical
	properties

	Yuka Yamaguchi, Anna Gubarevich and Katsumi Yoshida
2P027	A Comparative Study of Questionnaire and Free Comment Surveys in the Annual Nuclear
	Energy Public Opinion Poll for a Deeper Understanding of Public Opinion
	HASHIMOTO Yuki, IKEGAMI Masako
2P028	Chemoinformatic attempts to elucidate candidate extractant structures for enhanced MA
	separation
	Masahiko Nakase, Takahiro Nishihara, Tomohiro Okamura, Fauzia Hanum Ikhwan, Alaaeldine
	Shaker Mohammed Saleh and Kota Matsui
2P029	Selection Method of Optimal Location for Offshore Wind Farm based on Short-term Wind
	Speed Prediction
	Botong Chen
2P030	Carbon dioxide conversion technology at high temperatures using a metal-supported solid
	oxide electrolysis cell as a green transformation technology
	Hiroki Takasu, Daisuke Moritomo, Shigehiko Funayama, Yukitaka Kato
2P031	Development of a Detection Technique for Nuclear Materials Using Gamma-rays from the
	Proton-Lithium Nuclear Reaction
	Tatsuya Katabuchi, Risa Kunitomo, Hiroshi Sagara, Chikako Ishizuka, Krittanai Kiatkongkaew,
	Kosuke Tanabe
2P032	Comprehensive ilmenite modification in chemical looping processes to improve reactivity and
	H ₂ yield
	Zhuang SUN, Junichiro OTOMO
2P033	Measurement of chromium oxide activity in molten slag
	CHONGLIN SHI
2P034	Beam simulation of a TE211 mode single hybrid cavity linear accelerator
	Shota Ikeda, Noriyosu Hayashizaki
2P035	Recognition and Repair of DNA Double-strand Breaks: Seeking for Molecular Mechanisms
	and Its Implication for Cancer Therapy and Radioprotection in Next Generation
	Yoshihisa Matsumoto, Mikio Shimada
2P036	Development of PDMS-based Photonic Crystal Film for Uranyl Ion Sensing
	Ayumu Nagakawa, Naokazu Idota, and Takehiko Tsukahara
2P037	Approach for smelting reduction process by carbon neutral reducing gas toward carbon
	circulating materials production system
	Yoshinao Kobayashi and Keisuke Nagase
2P038	Creation of Graphene/PDMS Composite Sponge and Its Application to Uranium
	Decontamination
	Atsuro Furuichi, Naokazu Idota, Takehiko Tsukahara
2P039	Conceptual study of a high burn-up demonstration high-temperature gas-cooled reactor
	Yuta Muramatsu
2P040	Development of Photo-Swing Separation Technique for the Selective Recovery of Rare Metal

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Haruka Ban, Naokazu Idota, and Takehiko Tsukahara

2P041 Improvement of battery performance by annealing of LNMO

Kentaro Murata, Masataka Ikeda, Ryota Nomura, Yoshinao Kobayashi and Shintaro Yasui

2P042 Microwave-Enhanced Dehydration of Calcium Hydroxide: Experimental and Numerical

Insights for Thermochemical Energy Storage

Massimiliano Zamengo, Hisahiro Einaga, Yuji Wada, Junko Morikawa

2P044 Development of Surface-Enhanced Raman Spectroscopic Technique for Simple and Rapid

Uranium Analysis

HE YANWEI, Naokazu Idota, and Takehiko Tsukahara

2P045 Selective Recovery of Platinum Group Metals from Waste Solutions Using Sulfur-containing

Crosslinked Polymer

DU YONGNAN, Naokazu Idota, and Takehiko Tsukahara

2P046 Effect of Structural Phase Transformation of Calcium Ferrite Oxygen Carrier on Redox

Reactions in Chemical Looping Combustion

Takayuki Kosaka, Junichiro Otomo

2P047 Creation of Novel Boron-Gadolinium Hybrid Nanosheets Towards Diagnostic and

Therapeutic Nuclear Medicine

Arisa Hatano, Naokazu Idota, and Takehiko Tsukahara

2P048 Roles of Solid State Ionics in Green Transformation Technology - Fuel Cell, Energy Carrier,

Carbon Recycling -

Junichiro Otomo

2P049 Development of a method to predict the possibility of forming covalent organic frameworks

using quantum chemical calculations

Tomoki Kitano and Yoichi Murakami

2P050 Electrochemical approach to CO₂ fixation using seawater

Hiroki Hara, Shunsuke Ito, Yasuhide Mochizuki, Akira Nakajima, Toshihiro Isobe

Day 3

8:30- **Registration**

Room 1: Multi-Purpose Digital Hall (West Bldg. 9)

9:00-10:00 **DLR Session on Energy Storage**

Chair: Prof. Shintaro Yasui

DLR-1: Thermal Energy Storage for Defossilisation of the Process Heat Sector

Dr. Thomas Bauer, Department of Thermal Process Technology, Institute of Engineering

Thermodynamics, German Aerospace Center (DLR)

DLR-2: Thermochemical Energy Storage and Synergies with Hydrogen

Dr. Inga Bürger, Department of Thermal Process Technology, Institute of Engineering

Thermodynamics, German Aerospace Center (DLR)

10:00-10:10 Break

10:10-11:10 **DLR Session on Energy Storage**

Chair: Prof. Shintaro Yasui

DLR-3: High Temperature Latent Heat Storage with Alloy Based Phase Change Material

Prof. Takahiro Nomura, Faculty of Engineering, Hokkaido University

DLR-4: Rechargeable Batteries for GX

Prof. Hajime Arai, Department of Chemical Science and Engineering, School of Materials and

Chemical Technology, Institute of Science Tokyo

With Panel Talk

11:10-11:30 Break

3S10 Green Inorganic Materials

Chair: Prof. Sachiko Matsushita

11:30-11:50 **3S10-1** Effects of BN interphase thickness and the porosity of SiC matrix on

mechanical properties of SiCf/SiC composites

Daichi Sakakibara, Anna Gubarevich, Masaki Kotani, Katsumi Yoshida

11:50-12:10 3S10-2 Effect of boron and carbon additives on SiC ceramics sintered by high-

frequency induction heating

Alin Yoshida, Anna Gubarevich, Katsumi Yoshida

12:10-12:30 3S10-3 Electromagnetic induction-assisted synthesis and sintering method for high-

performance boron carbide fabrication

Anna Gubarevich, Yu Nakano, Katsumi Yoshida

12:30-13:30 Lunch Break @Tsubame Terrace

3S11 Thermal Storage and Use

Chair: Prof. Anna Gubarevich

13:30-13:50 **3S11-1** Power Generation Technology That Converts Unused Waste Heat into Electricity:

Semiconductor-Sensitized Thermal Cell

Sachiko Matsushita

13:50-14:10 3S11-2 Novel heat storage materials developed by impregnating sugar alcohols into

covalent organic frameworks

Xiaohan Wang, Shoma Mitsui, Yoichi Murakami

14:10-14:30 3S11-3 Hybrid thermal energy storage based on thermochemical energy storage and

thermocline sensible thermal energy storage

Shigehiko Funayama, Tsuyoshi Izaki, Hana Saeki, Kenta Tomita, Tsukasa Sugiyama, Kyosuke

Mochizuki, Takashi Kato, Hiroki Takasu, Yukitaka Kato

14:30-14:40 Break

14:40-16:00 **GXI VISION 2050 Session**

Chair: Prof. Yoshinao Kobayashi

GXI-1: GXI VISION 2050 for Carbon Neutral Society

Prof. Yukitaka Kato, Director of and Professor for the Laboratory for Zero-Carbon Energy, Institute of Integrated Research, Institute of Science Tokyo; Director of Science Tokyo GXI

GXI-2: The THREE Points of GXI VISION 2050

Prof. Takao Nakagaki, Specially Appointed Professor for the Laboratory for Zero-Carbon Energy, Institute of Integrated Research, Institute of Science Tokyo; Professor for the Faculty of Science and Engineering, School of Creative Science and Engineering, Waseda University

GXI-3: Japan's Energy Basic Policy in GXI VISION 2050

Dr. Keigo Akimoto, Specially Appointed Professor for the Laboratory for Zero-Carbon Energy, Institute of Integrated Research, Institute of Science Tokyo; Group Leader/Chief Researcher, Systems Analysis Group, Research Institute of Innovative Technology for the Earth

GXI-4: Japan's Nuclear Policy in GXI VISION 2050

Prof. Kenji Takeshita, Senior Aide to the Executive Vice President for Research; Professor Emeritus/Specially, Appointed Professor, Institute of Science Tokyo

15:60-16:30 Closing Ceremony / Award Ceremony

Chair: Prof. Shintaro Yasui

Prof. Jun Hasegawa, Technical Program Committee of GXI-ZES, Science Tokyo

Prof. Hiroshi Sagara, Chair of GXI-ZES, Science Tokyo

Room 2: Collaboration Room (West Bldg. 9)

3S12 Nuclear Reactions and Applications-1

Chair: Prof. Hiroshi Akatsuka

11:30-11:50 **3S12-1** Improved Method for Calculating the Conversion Efficiency of Direct Charge

Nuclear Battery by Using the PHITS code

Hiroki Takezawa, Bin Zeng

11:50-12:10 3S12-2 Numerical Analysis of Photonuclear Reaction Detection using High Energy

Gamma-ray from 7Li(p,g)8Be Triggered by Proton Accelerator

Krittanai Kiatkongkaew, Hiroshi Sagara, Kosuke Tanabe, Tatsuya Katabuchi, Chikako Ishizuka,

Risa Kunitomo

12:10-12:30 **3S12-3** Development of Machine Learning Model for Nuclear Fission Data

Chikako Ishizuka, Jingde Chen, Yusuke Mukobara, Osamu Iwamoto, Satoshi Takeda, Masaomi

Ueno

12:30-13:30 Lunch Break @Tsubame Terrace

3S13 Nuclear Reactions and Applications-2

Chair: Prof. Hiroki Takezawa

13:30-13:50 **3S13-1** Angular Distribution of Neutron Flux from a Linear Inertial Electrostatic

Confinement Fusion Device

Koshiro Arai, Jun Hasegawa

13:50-14:10 3S13-2 Measurement of neutron capture cross sections of Tc-99 at ANNRI of J-

PARC MLF

M. Maloney, T. Katabuchi, C. Ishizuka, G. Li, H. Kondo, J. Han, Z. Shao, G. Rovira, S. Endo,

A. Kimura, S. Nakamura

Room 3: Conference Room (West Bldg.8. 10F)

Energy Policy, Economics, Material Recycling-1

Chair: Dr. Tomohiro Okamura

11:30-11:50 **3S14-1** Development of Material Recycling Technology for GHG Reduction in

Semiconductor Manufacturing

Atsushi Morihara, Yoshihiko Kato, Koichi Imamura, Shunsuke Michigami

11:50-12:10 3S14-2 Study on Analytical Evaluation of Radiological Impacts due to Sabotage against

Spent Nuclear Fuel Transport Package

Kanichi Oyama, Makoto Hirose, Susumu Ozaki, Hiroshige Kikura

12:10-12:30 **3S14-3** Technologies and issues in steel manufacturing processs toward the achievement

of carbon-neutral steel industry

Hiroyuki Matsuura

12:30-13:30 Lunch Break @Tsubame Terrace

3S15 Energy Policy, Economics, Material Recycling-2

Chair: Prof. Hiroyuki Matsuura

13:30-13:50 3S15-1 Current Status and Next Development of Fuel Cycle Analysis Technique for the

Future Scenarios: Research Committee on Fuel Cycle Analysis Technique for Future

Nuclear Scenarios in Atomic Energy Society

Kenji Takeshita, Tomohiro Okamura, Naoto Aizawa, Masahiko Nakase, Takashi Shimada, Kenji

Nishihara

13:50-14:10 3S15-2 Three Years of NMB4.0: A Driving Force Toward Nuclear Innovation Through

Open Access Nuclear Fuel Cycle Simulator Development

Tomohiro Okamura, Takumi Abe, Taiga Suzuki, Masahiko Nakase, Kenji Takeshita, Kenji

Nishihara

14:10-14:30 **3S15-3** Evaluation of Measures for Enhancing the Efficiency of International

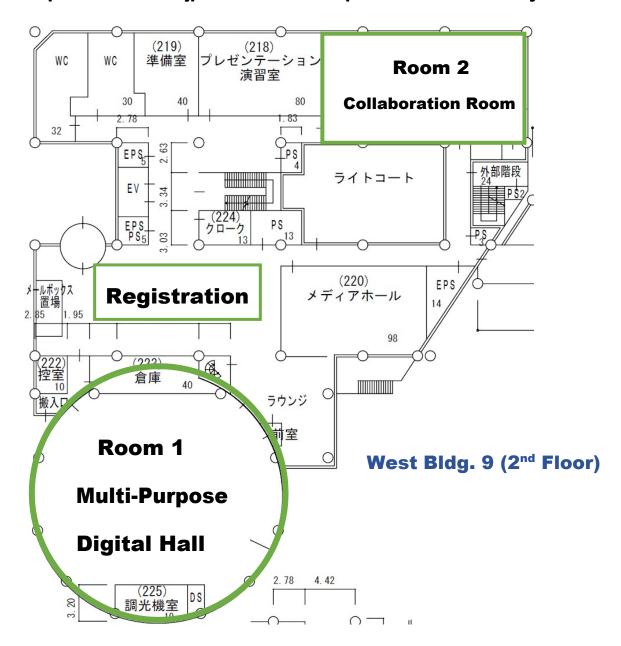
Safeguards Activities Applied to SMRs

Koji Tsutsui, Hiroshi Sagara

Rooms

Science Tokyo, Ookayama Campus

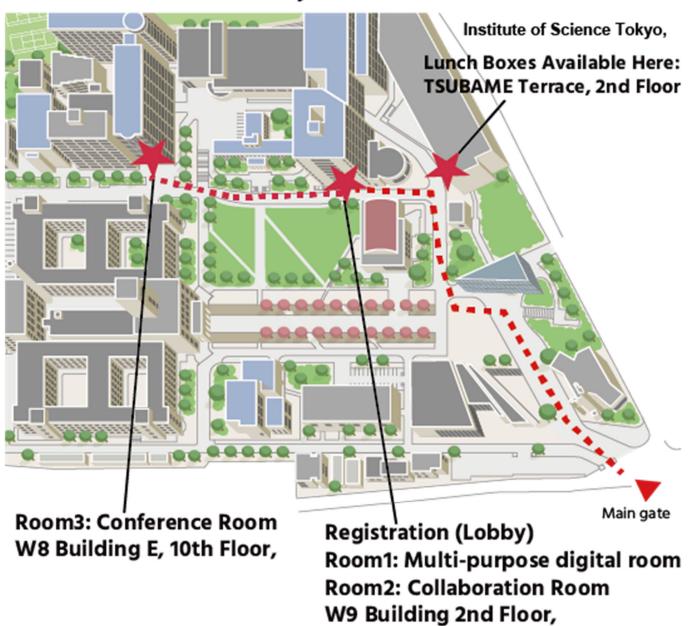
https://www.isct.ac.jp/en/001/about/campuses-and-offices/ookayama



Venue

Science Tokyo, Ookayama Campus

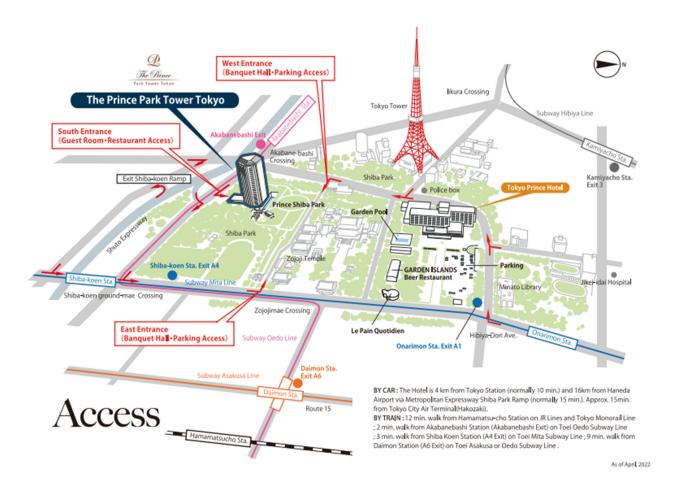
From Ookayama St. to the Venue



Reception Party

At 18:00-19:30 on 15th January, 2025 The Prince Park Tower Tokyo Sky Banquet (33F)

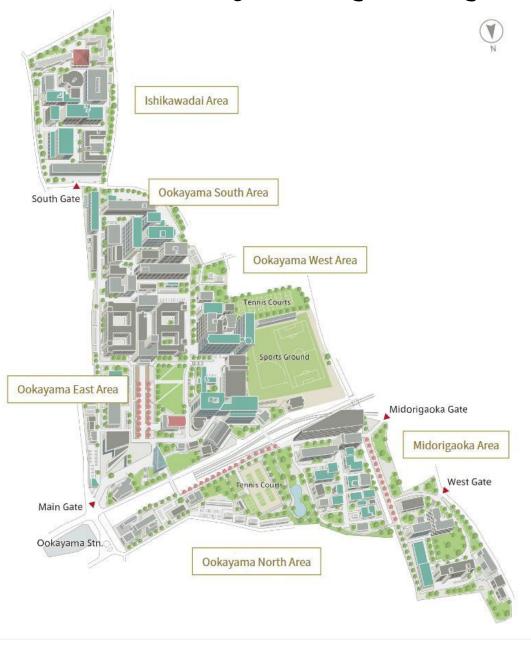
https://www.princehotels.com/parktower/map-direction/



Located in the heart of Tokyo very close to the city's landmark Tokyo Tower and within easy reach of two different subway lines, the Toei Oedo Line and Toei Mita Line. From Shibakoen Station of Toei Subway Mita Line: about 3 minutes on foot.

It takes about 17 minutes from Ookayama Sta. to Shiba-koen Sta.

Science Tokyo Campus Map



Location: 2-12-1 Ookayama, Meguro-ku, Tokyo 152-8550 Japan

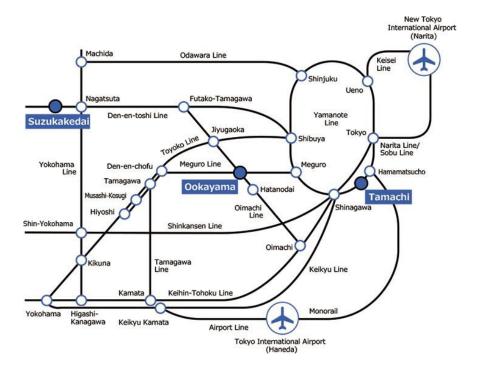
Nearest stations

The Main Gate is a 1-minute walk from Ookayama Station on the Tokyu Oimachi and Tokyu Meguro Lines.

The West Gate is a 3-minute walk from Midorigaoka Station on the Tokyu Oimachi Line.

The Midorigaoka Gate is a 1-minute walk from Midorigaoka Station on the Tokyu Oimachi Line.

The South Gate is a 7-minute walk from Ishikawadai Station on the Tokyu Ikegami Line.



From Narita Airport

(recommended route - approx. 85 min.)

Narita Airport (terminal 1 or 2) Station (Keisei)

Keisei Skyliner bound for Nippori and Ueno (approx. 40 min.)

Nippori Station (Keisei)

walk (approx. 5 min.)

Nippori Station (JR)

JR Keihin Tohoku Line bound for Ofuna and Isogo (approx. 25 min.)

Oimachi Station (JR)

walk (approx. 5 min.)

Oimachi Station (Tokyu)

Tokyu Oimachi Line bound for Mizonokuchi and Nagatsuta (approx. 10 min.)

Ookayama Station (Tokyu)

Search for alternate routes

From Haneda Airport

(recommended route - approx. 55 min.)

Haneda Airport Station (Tokyo Monorail)

Tokyo Monorail bound for Hamamatsucho (approx. 25 min.)

Hamamatsucho Station (Tokyo Monorail)

walk (approx. 5 min.)

Hamamatsucho Station

JR Keihin Tohoku Line bound for Ofuna and Isogo (approx. 10 min.)

Oimachi Station (JR)

walk (approx. 5 min.)

Oimachi Station (Tokyu)

Tokyu Oimachi Line bound for Mizonokuchi and Nagatsuta (approx. 10 min.)

Ookayama Station (Tokyu)

From Tokyo Station

(recommended route - approx. 30 min.)

Tokyo Station (JR)

JR Keihin Tohoku Line bound for Ofuna and Isogo (approx. 15 min.)

Oimachi Station (JR)

walk (approx. 5 min.)

Oimachi Station (Tokyu)

Tokyu Oimachi Line bound for Mizonokuchi and Nagatsuta (approx. 10 min.)

Ookayama Station (Tokyu)

Search for alternate routes