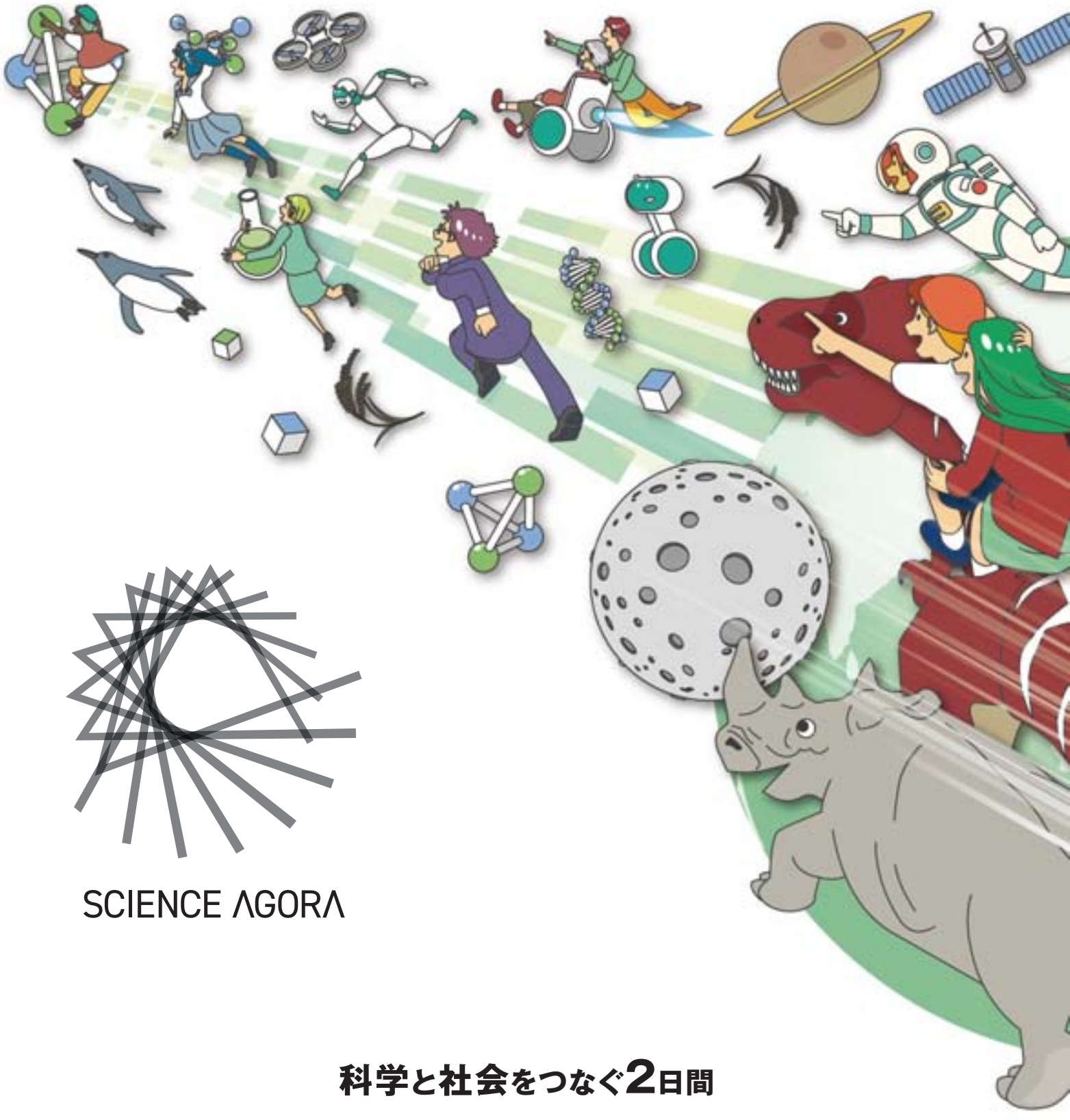
サイエンスと共に未来へ ～Bound for the future with Science～



SCIENCE AGORA

科学と社会をつなぐ2日間

サイエンスアゴラ2024

Report on Science Agora 2024

Overview of Science Agora 2024

What is “Science Agora” *Agora is ancient Greek for “meeting place”

Science Agora is a generic term for a place connecting science and society, which is open to everyone. It is a forum in which various people promote activities in each region independently by connecting parties involved in different fields, sectors, generations, and nationalities. People gathering in this forum will aim to realize “science harmonized with society” and a “society harmonized with science” through dialogue and collaboration while respecting a diversity of values.

Science Agora activities fulfill these five conditions:

(1) With society and for society
(2) Science related
(3) Self-motivated
(4) Devoted to dialogue with a diverse range of people
(5) Devoted to public dialogue

Theme of Science Agora 2024 : Bound for the future with Science

The theme this year is "Bound for the future with Science," and our hope is that each and every visitor will find their own compass for the future as they journey through Science Agora 2024 while enjoying the various booths and sessions. Together, let's realize a Science Agora 2024 that is a place to think together with visitors about co-creating a future society while also acknowledging our diverse values.

Event outline

■Title: Science Agora 2024

■Dates: Saturday, 26th– Sanday, 27th October
[Online pre-event] Friday, 25th October

■Host: Japan Science and Technology Agency (JST)

■Sponsor: Asahi Kasei/ Nippon Telegraph and Telephone (NTT)

■Collaborator: Tokyo Waterfront City Association/ Fuji Television Network/ Tokyo Teleport Center/ Yurikamome
KYOTO Design Lab of Kyoto Institute of Technology (D-lab)/
Institute of Dinosaur Research, Fukui Prefectural University/ DETECTIVE CONAN ZEMI/
A-Co-Labo/ Zeon

■Supporter: Cabinet office/ Ministry of Foreign Affairs/ Ministry of Education, Culture, Sports, Science and Technology/ Ministry of Economy, Trade and Industry/ Tokyo Metropolitan Government/
Science Council of Japan/ Keidanren/ The Japan Association of National Universities/
Federation of Japanese Private Colleges and Universities Associations/ RIKEN/
The National Institute of Advanced Industrial Science and Technology (AIST)/
Japan Association for the 2025 World Exposition

■GlobalPartner: American Association for the Advancement of Science (AAAS)/
Department of Science and Innovation, Republic of South Africa (DSI) / EuroScience/
Korea Foundation for Science and Creativity (KOSAC)

Event Report

Science Agora 2024 Closes: Exploring Future Society Through Dialogue and Experience

Science Agora 2024, one of the largest events in Japan that bridges science and society through dialogue and experiential learning for people from all walks of life, was held over two days on October 26th and 27th. The event, fully in-person for the first time in five years (excluding an online pre-event), took place at two venues in Tokyo's Odaiba area, drawing researchers, youth, and families.

Once again this year, people engaged in dialogue while exploring science and the future through Science Agora's unique programs at the Telecom Center Building in Koto Ward, Tokyo.

AI Booth Rally and Curation as Guides

In 2024, Science Agora, organized by the Japan Science and Technology Agency (JST), marked its 19th year. While Science Agora had traditionally been an in-person event, it shifted to online or hybrid formats from 2020 to 2023 due to the COVID-19 pandemic. This year, the return of a fully in-person event featured the Telecom Center Building as the main venue, along with collaboration from the Miraikan (both located in Aomi, Koto Ward, Tokyo). The event showcased around 150 programs and included an online "pre-event" on October 25th.

(Left) This year as well, numerous visitors gathered at the Telecom Center Building (Right) The main venue, the Telecom Center Building (left in the background), and the Miraikan (right) are about a five-minute walk apart.

The in-person event featured unique ideas to ensure attendees had an enjoyable experience. This year, the AI Booth Rally, which utilized artificial intelligence, attracted particular attention. By scanning QR codes at the booths with their smartphones, visitors received AI recommendations on which booth to visit next. This initiative, a collaboration between the National Institute of Advanced Industrial Science and Technology (AIST) and JST, enhanced visitor satisfaction and showed potential for application in various non-scientific events.

The AI Booth Rally gave recommendations for the next booth to visit

Continuing on from last year, "Curation" was employed to organize the booth layout in an easy-to-understand manner. Curation refers to the process of gathering information, editing it around a theme, and deriving meaning or value. At Science Agora, an 11-member steering committee of experts curated the diverse programs by categorizing and assigning value to them based on participants' interests. With five key topics such as "Learning, Experiences, and Craftsmanship" and "Food, Lifestyle, and Health," the synergy between curation and the AI Booth Rally likely helped visitors use their time effectively.

Deepening Awareness of the Importance of Science Communication

Various sessions delved into topics such as environmental and energy issues, the mysteries of life and matter, challenges in healthcare and disaster prevention, the enigmas of space, and the roles of science, technology, and research, with these various themes facilitating in-depth discussions between speakers and attendees.

Speakers and attendees engaged in continuous dialogue through the various themed programs in the sessions

Science Agora is a key event for science communication, where the scientific community and the general public interact to deepen intellectual curiosity and work toward a better society. As such, opinions from domestic and international speakers on this field drew significant interest. Some of the observations were that, "Scientists are increasingly communicating directly with the public through social media, lectures, and events," and "There is a paradox where people express dissatisfaction with the quality of science communication and information, yet are unwilling to pay for high-quality articles."

Furthermore, there were also critical observations such as, "In Japan, despite a high number of newspaper subscribers, in newspapers there is only minimal coverage of scientific news. Many science magazines have ceased

publication, and there is a severe shortage of personnel in research publicity. There is insufficient awareness of the importance of science communication and inadequate education in scientific writing," and "In order to enhance the quality of science communication, it is not merely enough for the information to be accurate. Specialized skills are required to consider context and audience, to avoid imposing viewpoints, and to foster stimulating conversations."

Scientists spoke about the challenges and appeal of their work. "In school lessons, results align with hypotheses, but in research, outcomes rarely go as expected. Is the experiment flawed, or is the hypothesis wrong? It's a constant cycle of thinking, but that's the fun part." "When you can identify your own challenges, it becomes enjoyable and full of possibilities." "There are many difficulties, but the excitement of being the only one to glimpse the true nature of your research subject during analysis is unmatched." "While there is competition, collaborating with researchers worldwide is very rewarding." These reflections likely resonated deeply, not only with young people considering their career paths but with many others as well.

To those unsure about pursuing a career as a researcher, there were also messages of encouragement: "Set aside biases that create a fear of STEM," "The idea that being bad at math means you can't pursue STEM is flawed," and "I hope you'll pursue what you truly want to do without imposing limitations on yourself."

Dinosaurs and Exhibitions: VR and AI Stood Out at Booths

The booths featured numerous experiential programs and workshops that were organized by research institutions, schools, and companies, including experiments, observations, and discussions on social issues. This year, initiatives utilizing virtual reality (VR) and AI technologies were particular stand outs. A program by Fukui Prefectural University allowed visitors to observe dinosaur fossils in VR, drawing a steady stream of parents and children. Rikkyo University's project invited participants to view AI-generated images and freely interpret them, sparking reflections on the future of science and technology, with the exhibit-like presentation captivating many attendees.

Outside the Miraikan, NTT Docomo showcased a truck equipped with a system designed to support remote medical consultations and treatments. Utilizing fifth-generation (5G) mobile communication and cloud technology, the exhibit offered a glimpse into the future of medical technology through simulated disaster-response demonstrations.

A variety of programs came to life. (Left) Reflecting on AI-generated images. (Right) A truck designed to support remote medical care.

Exhibitors at these booths shared their unique perspectives on evaluating Science Agora. "I've participated in various events, but Science Agora stands out for the broad age range of the attendees and the diverse viewpoints on the exhibits, which enriches the dialogues." "With so many exhibitors, visiting other booths can provide inspiration for new program ideas." "Spending a day at Science Agora allows me to hear from researchers outside my field." "To make research feel more approachable, it would be helpful to include more focused introductions of the researchers at each booth, highlighting their personal stories."

"Things We Want to Say, Things We Want to Hear" – Calls for Further Interaction

The Feedback Board, where attendees could freely write their thoughts, was covered in colorful sticky notes. Comments included: "It was a wonderful space, filled with the passion of those captivated by the excitement of science and eager to share it," "Science makes my heart race, and it's fascinating. I want to make discoveries myself," and "It was fun making science-themed items! I'll cherish them and take them home." The board reflected the unique atmosphere of Science Agora, where participants not only shared their ideas but also enjoyed the act of expression itself, such as by thoughtfully placing sticky notes or adding illustrations.

A variety of perspectives were shared on the Feedback Board.

A graduate student in his 20s from Kita Ward in Tokyo, commented, "The sense of presence and tension unique to in-person events enhanced the quality of the programs and participants' satisfaction. However, there were moments where I felt a gap between what the researchers wanted to share and what the general public wanted to hear. I'd like to see more opportunities for deeper interaction between the two groups." Meanwhile, a civil servant in his 30s from Edogawa Ward remarked, "I enjoyed the wide range of exhibits, but some booths had titles that didn't intuitively convey their content," expressing a desire for improvement.

This is merely my (Takeo Kusashita) impression, but the presence of children, likely elementary school students, seemed even more noticeable this year than in previous years, although I'm not quite sure what the reason for it was. They were fully immersed, cheering during the science show held at noon on the 26th and enthusiastically engaging in experiments and activities at the booths. It reaffirmed the importance of experiencing the wonders and curiosities of the world around us through the senses from an early age. Regardless of age, spending a full day at the venue naturally led to exchanges with many people and stimulated reflective thought. This year's Science Agora undoubtedly provided many attendees with a lively opportunity to encounter new knowledge and technologies, and sparked their intellectual curiosity.

Children were delighted and captivated by the science shows and the various experiments at the booths.

(Takeo KUSAKA and Midoriko NAGASAKI / Science Portal Editorial Dept.)

※This report is reprinted from the "Science Portal" comprehensive science website, which provides the latest information on science and technology.
Science Portal: **https://scienceportal.jst.go.jp**

The Event in Numbers

Science Agora 2024 (Annual General Meeting) October 26-27, Agora Eve Event (Online) October 25

Participants (as of 17:30 on Oct. 27, the last day) : 7,120

〈Breakdown〉

Attendees		Contributors	Press	Total
Telecom Center Building	Miraikan			
4,654	885	1,566	15	**7,120**
5,539				

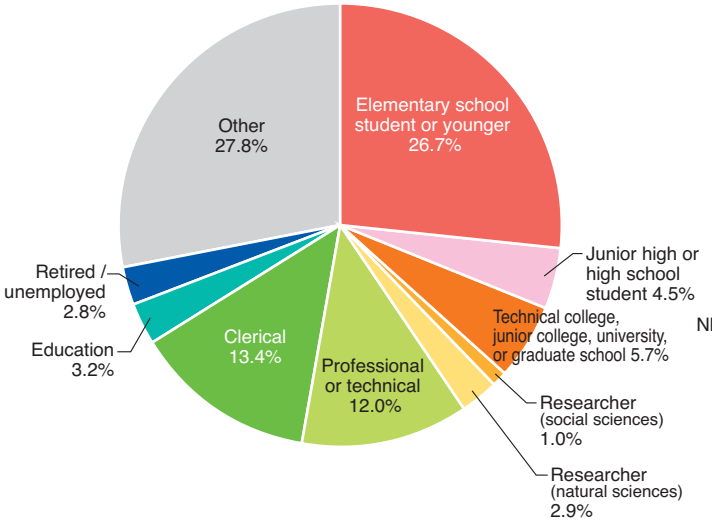
Exhibition Programs : 153

〈Breakdown〉

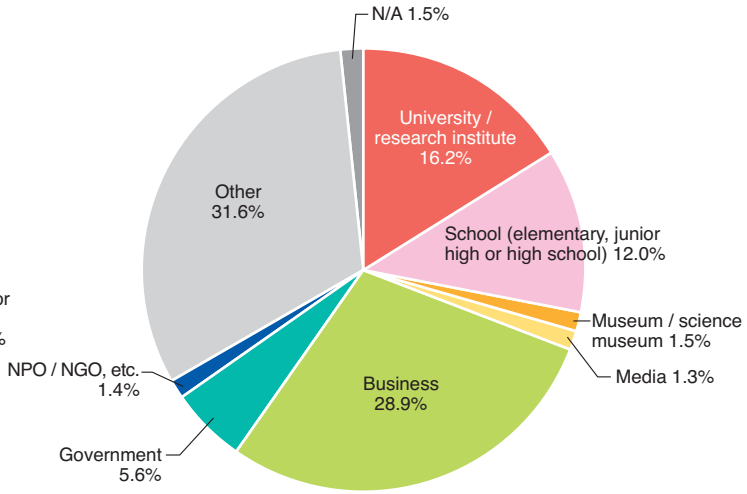
Exhibit format \ place	Telecom Center Building	Miraikan	Online	Total
Booth	111	1	—	112
Session	33	6	1	40
Others	1	—	—	1
Total	145	7	1	**153**

Attendee statistics

Occupation n = 4,654

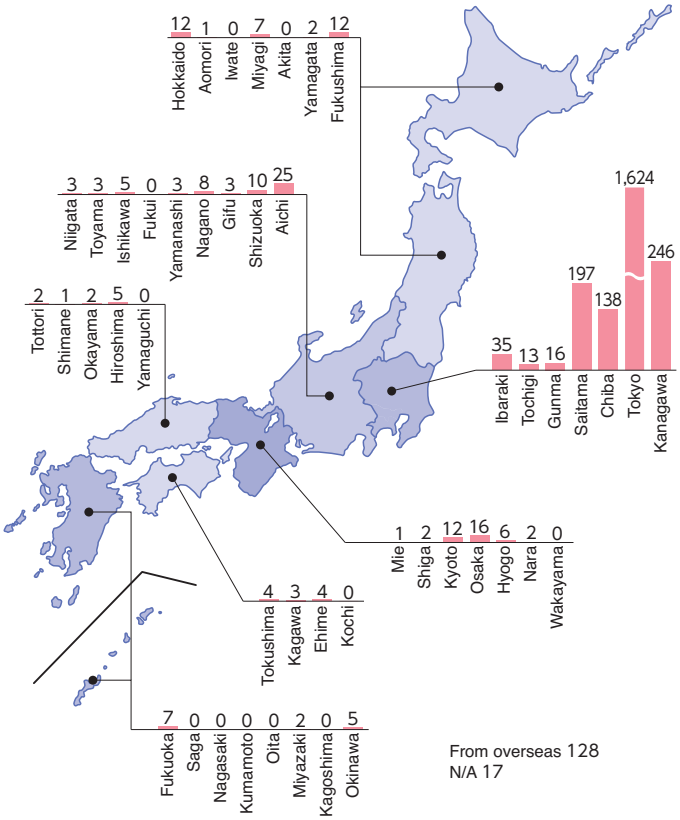


Category of organization n = 2,582



Where are you from?

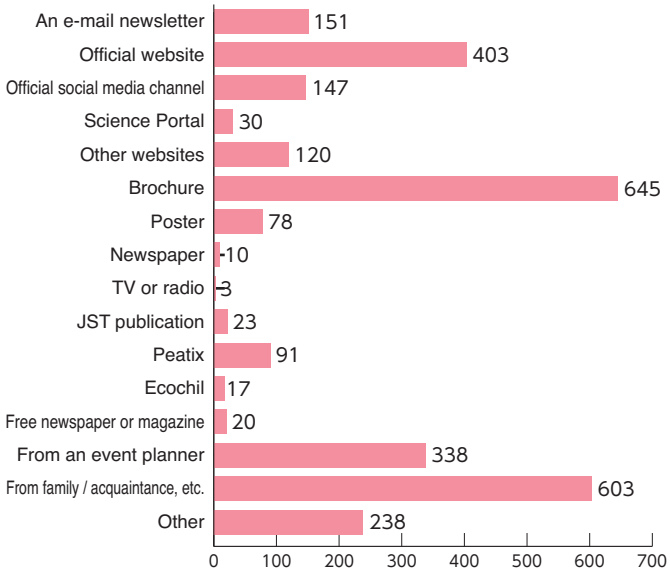
(people)



From overseas 128
N/A 17

How did you hear about Science Agora 2024?

(Select as many as applicable)



The Current State of Science Communication and Challenges in Japan

Date and time: 10:30-12:00, Saturday, October 26
Exhibitor: JST-RISTEX

〈**Speakers**〉

Prof. Massimiano BUCCHI Professor of Science and Technology in Society and Director of Master SCICOMM, University of Trento

Dr. Kristof FENYVESI Senior Researcher, Finnish Institute for Educational Research, University of Jyväskylä

Dr. Takumi YADA Postdoctoral researcher, Finnish Institute for Educational Research, University of Jyväskylä

Prof. Noriko OSUMI Vice President/ Professor, Graduate School of Medicine, Tohoku University

Since the turn of the 21st century, the importance of science communication has been discussed, and interactive nature has been emphasized. Risk communication gained attention after the Great East Japan Earthquake and the spread of COVID-19, and the diversification of activities, including STEAM education, has also progressed. With conflicting opinions on topics such as global warming, AI, and war, the importance of evidence-based science communication is increasing, and expectations for outreach and ELSI studies are rising, especially in scientific research aimed at solving social issues.

In this program, we will invite people involved in science communication from Japan and abroad, and attempt to clarify trends in Europe and the current situation and issues in Japan through lectures and panel discussions (simultaneous interpretation will be provided).

Session Report

Reconsidering Science Communication: Domestic and International Researchers Discuss at Science Agora 2024

Amidst challenges such as major earthquakes, the spread of infectious diseases, and global warming, the importance of science communication, which bridges science and society, is being reevaluated. On the first day of Science Agora 2024, held on October 26–27, the Research Institute of Science and Technology for Society (JST-RISTEX) organized a lecture titled "The Current State of Science Communication and Challenges in Japan," which highlighted European trends and Japan's current situation, while also fostering discussions between researchers and participants from both Japan and abroad.

The lecture was held to a packed audience, with standing room only (Miraikan)

Science communication refers to concepts and activities aimed at promoting interaction and dialogue between scientists and the public, and in Japan it was introduced via government-led efforts in the early 2000s. Today, in addition to Science Agora, the country's largest event in this field, a variety of activities are conducted nationwide.

At the start of the lecture, Tadashi Kobayashi, the Director-General of JST-RISTEX, noted that the Great East Japan Earthquake and the COVID-19 pandemic had sparked extensive discussions on science communication. He explained that Science Agora had invited researchers from Japan and abroad to discuss what role is expected of science communication.

Tadashi Kobayashi (Director-General of JST-RISTEX) explaining the purpose of the event

Three Trends at the University, Research Institution, and Policy-Maker Levels

The first speaker was Prof. Massimiano Bucchi from the University of Trento, an authority in the field who has published numerous books and papers on science communication. In his lecture, he presented three recent trends in science communication research based on his own findings.

Prof. Massimiano Bucchi of the University of Trento, delivering a lecture on trends in science communication in Europe.

The first trend was "Science Communication at Universities and Research Institutions." An international study on how universities and research institutions engage in public dialogue revealed that, surprisingly, there are no significant differences between countries. Prof. Bucchi concluded by raising a critical question: "Is science communication by universities and research institutions aimed at disseminating actual research findings, or is it primarily a marketing tool?"

The next trend was "Scientists Gaining Greater Social Prominence During the Pandemic." Prof. Bucchi noted that the pandemic significantly increased the visibility and presence of many scientists. He emphasized that this trend is likely to grow stronger and should be given greater attention moving forward.

The final trend concerned "Policy Makers' Awareness of Science Communication." Prof. Bucchi presented a comparative study on how leaders in the UK, Italy, and the European Commission discuss science and science communication, which revealed intriguing differences. In the UK, science is closely tied to national pride; in Italy, science provides not only prestige but also a sense of identity and satisfaction; meanwhile, in Europe, science is portrayed as the essence of what defines Europe and as a unifying force for integration.

Prof. Bucchi emphasized that improving the quality of science communication requires not only accuracy but also an understanding of context and audience. He also pointed out the need to develop the science communication skills of scientists and research institutions and to foster a sense of responsibility in this regard. His lecture, which explored recent research trends and visions for the future, provided a comprehensive picture of the current state of science communication.

Open Lab Events and STEAM Education in Finland

Two researchers from the University of Jyväskylä in Finland were invited to the lecture, where they shared practical examples of science communication and STEAM (Science, Technology, Engineering, Arts, and Mathematics) education in their country.

Dr. Kristof Fenyvesi (left) and Dr. Takumi Yada, researchers at the University of Jyväskylä, presenting practical examples from Finland.

Prof. Takumi Yada, who has been living in Finland for over 10 years, first introduced the country's education system, emphasizing its commitment to equality. In Finland, tuition is free from compulsory education through to doctoral programs, and higher education is generously supported with financial aid for students. This provides an equal environment where individuals can focus entirely on their desire to learn.

Next, "Researchers' Night in Finland," a science communication event was introduced. This festival-like event involves research institutions opening their labs to the public, and this year it attracted 15,000 participants in Jyväskylä, a city with a population of 140,000.

This event is designed for researchers to communicate with people from the local community about their work. Notable examples included a guided tour of the large particle accelerator in Jyväskylä and workshops where sports science researchers had children take part in physical activities.

Introductory video for the Researchers' night in Finland, showcasing the vibrant and lively atmosphere
URL: https://www.youtube.com/watch?v=eAFMabgpu8k

Next, Prof. Kristof Fenyvesi introduced examples of STEAM education in Finland. STEAM education, which integrates the fields of science, technology, engineering, arts, and mathematics, is highly compatible with science communication.

Prof. Fenyvesi introduced educational practices that incorporate the use of art

First, Prof. Fenyvesi posed the question, "Why do we learn? Why does humanity seek progress?" While there are various possible answers, he argued that contributing to the world's well-being – ensuring mental and physical health and happiness – is vital. He shared an example from a workshop held in one of South Africa's poorest regions, where even basic electricity is scarce. By integrating mathematics and art, the workshop fostered creativity, with the children embedding political messages in their works.

He also highlighted key elements in education, emphasizing the importance of fostering awareness of sustainability, the ability to navigate an uncertain future (future literacy), and a sense of responsibility as global citizens (planetary responsibility).

Prof. Fenyvesi's lecture, which highlighted the potential of engaging STEAM education initiatives to cultivate a broader, global, and even planetary perspective, provided rich insights.

Writing Skills Education and Career Path Development Are Essential for Nurturing Talent

Prof. Noriko Osumi, Vice President of Public Relations and the Promotion of Diversity at Tohoku University, delivered an online lecture about scientists' perspectives on expectations for science communication.

Prof. Noriko Osumi, Vice President and Professor at Tohoku University, delivering an online lecture on expectations for science communication from scientists' perspectives

Prof. Osumi is a scientist who actively shares information through books, blogs, and social media. While she acknowledged that publishing academic papers is the fundamental form of science communication for researchers, she emphasized the importance of each individual sharing their research and expertise with the public through general-interest books and social media.

To further promote science communication, Prof. Osumi highlighted the importance of developing writing skills. She expressed concern over the limited coverage of science in Japanese newspapers, despite Japan's high literacy rate and comparatively large newspaper readership, and suggested that the lack of readers interested in science might be a contributing factor.

She further pointed to a fundamental issue: the shortage of individuals with strong writing skills. In particular, she noted that Japan's STEM education lacks adequate instruction in writing and emphasized the necessity of teaching skills to communicate accurately and effectively.

Prof. Osumi also highlighted structural challenges such as the scarcity of PhD holders in government positions and the low percentage of female researchers. However, she identified career path issues as the most significant problems in Japan's science communication.

Around 20 years ago, several universities established training courses, but unfortunately, some of them have since disappeared. Prof. Osumi stressed the need to reconsider the vision for nurturing talent and to provide diverse career paths for individuals trained in science communication. During her lecture she used her unique perspective as a university executive to share these various challenges.

Restarting Science Communication

During the Q&A session, lively exchanges of ideas took place between the speakers and participants. The discussion touched on several key points: the need for peer review in science communication to ensure quality evaluation, the importance of curricula that produce more PhD graduates to secure talent for STEAM education, and the necessity of increasing the number of writers capable of expressing themselves in diverse settings to further enhance science communication activities.

Even during the Q&A session, there was a lively exchanges of ideas between the speakers and participants

At the closing, Prof. Hiromi Yokoyama of the University of Tokyo, who served as moderator, reflected on the lectures, expressing the thought that there may be many more ways for science communication to improve both Japan and the world. She also highlighted the significance of the event being government-led, expressing hope that it could mark a restart for science communication in Japan.

Prof. Hiromi Yokoyama (University of Tokyo), who served as the moderator

It has been about 20 years since science communication first began to spread in Japan. During this time, a wide variety of science communication activities, including Science Agora, have been held across the country. However, there seem to have been surprisingly few opportunities to reflect on and reconsider science communication itself.

As such, this opportunity to reflect on science communication itself, with participants from both Japan and abroad, was truly valuable. It also served as a rare chance for those involved in science communication, who seldom meet in person, to connect with one another.

(Yoshihiko KOBAYASHI, Lecturer, Faculty of Education, Oita University)

※This report is reprinted from the “Science Portal” comprehensive science website, which provides the latest information on science and technology.
Science Portal: **https://scienceportal.jst.go.jp**

Event List

Booth, Telecom Center Building 1F

From Saturday, October 26th to 27th Sunday

101	**Future Dinosaur Paleontology with Virtual Technology**	Institute of Dinosaur Research, Fukui Prefectural University and JST-RISTEX
102	**Challenge from Space ~Powered by DETECTIVE CONAN ZEMI~**	Hidekazu Shoto and JST-RISTEX
103	**Let's Protect the Earth! Learn About Decarbonization Through Simple and Fun Experiments!**	Tokyo Rinkai Holdings, Aomi South Area Public Relations
104	**Earth-friendly plastic materials**	i-Compology
105	**Miraikan, shaping the Future.**	Miraikan-The National Museum of Emerging Science and Innovation
106	**Hungarian scientific achievements in Japan – Come and find out! What is the common in volcanos, pyramids and positioning technology?**	Embassy of Hungary, dr.Kenji Sumiya, dr.Hiroshi Nakajima
107	**A Journey to EU-Japan Collaboration**	Delegation of the European Union to Japan
108	**South African Safari, Message from Wild Animals Featuring Ms. Yuka Ota – Official Safari Guide**	South African Embassy
109	**"SceNERIUM" Dome theater for experiencing coral reefs**	SceNE Project Research Institute for Humanity and Nature
110	**You too are a science hero! Defeat monsters with the power of science!**	A-Co-Labo and ZEON KIDS (ZEON CORPORATION) and JST-RISTEX
111	**The experience of silent communication**	Yoshioka Lab., Tokyo University of Technology, School of Media Science
112,113	**Share your opinion**	JST-RISTEX

Open space A, Telecom Center Building 1F

Saturday, October 26

26-1A10	**Awards Ceremony ~2024 'STI for SDGs' Award~**	JST-RISTEX
26-1A12	**Science Agora 2024 Highlights introduction and Miki Igarashi's Science show**	JST-RISTEX
26-1A13	**Inclusive Disaster Management for Deaf and Hard of Hearing People and Hearing People**	Kataoka AMED Project Team
26-1A15	**open-dialogue for the possibilities of outer space and future medicine**	Japan Agency for Medical Research and Development
26-1A17	**Social gathering for Science Agora 2024 Contributors**	JST-RISTEX

Sunday, October 27

27-1A09	**High school student × moonshot researcher dialogue!**	JST-RISTEX
27-1A10	**Exploring the Future of IVG Technology for Germ Cell Generation**	JST-RISTEX (R&D program: RInCA, Responsible Innovation with Conscience and Agility)
27-1A13	**Challenge the future of dark matter!**	High Energy Accelerator Research Organization (KEK)
27-1A15	**Researchers' OGIRI: Let's Create the Future with Animal Power!**	Arclev / AASN

Booth, Telecom Center Building 3F

From Saturday, October 26th to 27th Sunday

301	**The children are knocking on the door to the science world.**	Urawa Higashi Highschool SPP
302	**Powering Our Future Anytime, Anywhere! Harnessing 'Energy Harvesting' from Magnets**	Enejo × LABO (Energy × high shool girls × Laboratory)
303	**Pikarikagaku experimants box ~Let's enjoy light around！~**	Pikarikagaku
304	**The Exsibition of Sophisticated Toys which Generate Sharp Sighted Questions**	The Institute of Learning Science, Graduate School of Information Science, Meisei University
305	**Let's note your thoughts about the future of science on LED lantern!**	Dream-filled Experimental Project, Faculty of Engineering, Tokyo University of Technology
306	**Team electronic firefly**	National Institute of Technology, Matsue College
307	**Arithmetic and mathematics with "Game, Art, and Puzzle"**	math channel / happymath
308	**Wonders of Space and Shape : Let's Play Tessellations!**	Japan Tessellation Design Association
309-1	Only on Saturday, October 26 **The Human-AI Robot Co-Existence Society – A look into the future where "Non" exists –**	Technoxia
309-2	Only on Sunday, October 27 **Build Your Favorite Molecule! – Innovating New Molecular Models**	Division of Chemistry, Center for Natural Sciences, College of Liberal Arts and Sciences, Kitasato University
310	**Let's have fun with generative AI-assisted drawing and play Old Maid using brain wave.**	Araya Visionary Lab with PGV
311	**AI critic will (dis) approve your drawings!**	Arita-Suzuki Laboratory, Graduate School of Informatics, Nagoya University

312	**How do colors look ~Why is the color universal design important?~**	musset (Nature and Science Museum support student team)
313	**Look, Listen, Make, and Let's Talk together for Laboratory Animals Life!**	Japanese Association for Experimental Animal Technologists (JAEAT)
314	**Research and future development of the silkworm, which has played an active role in milestones of Japanese history**	The Japanese Society of Sericultural Science
315	**We are a genome exploration party! Let's become the leader of a genome expeditionary team!**	Japanese Association of Certified Genetic Counselors
316	**Outbreak Detectives**	National Institute of Infectious Diseases
317	**Let's think toghether about the future of entompphagy and information literacy**	Entomophagy Society Implementation Student Group and Shockonken
318	**Future map of "eating"**	Gohan Pakupaku Committee
319	**Let's learn about molecules and create your own molecules that will change the future!**	Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University
320	**Let's talk about the new changes in food and science that are heppening right now!**	CERTIFIED MANAGEMENT SUPPORT NPO CLUB
321	**Circulate, Connect, Unleash!! ~Adventure to Undiscovered Value~**	mercari R4D
322	**Protecting the Future - Safe and Friendly Mucosal Vaccines -**	Chiba University, Synergy Institute for Futuristic Mucosal Vaccine Research and Development
323	**Experience the technology that reconstructs 2D medical X-ray images into 3D!**	Komazawa University, Faculty of Health Sciences, Kondo Lab.
324	**Join us in envisioning a society where cutting-edge treatments are sustainably delivered to patients**	Innovation for NEW HOPE
325	**Creating A Society Whose Citizen's Health is Monitored by Remote Control of Intracellular Cybernetic Avatars**	Moonshot Goal 1 R&D Program, Prof. Yoko YAMANISHI 's Project
326	**Dissecting morphogenesis via PC simulation**	Karada engineering
327	**Creating the future of chemistry with computers**	Society of Computer Chemistry, Japan
328	**Let's imagine about our future with the high-tech innovators of the Edo period!**	techno mirai juku
329	**Let's create the scientific book as an editor!**	Yodosha
330	**'Science × Art' beyond the boundaries with kids**	9kidslab - Online Creative School for Kids
331	**High School Science Club's Challenge ~Weaving the Future~**	Jutoku High School Science Club
332	**Welcome to the small world of mobile microscopy!**	Life is small Projects
333	**International Science Olympiads workshop**	Japan Science Olympiads Committee
334	**Experience of gas-solid fluidized bed using sand from Tottori Sand Dunes.**	Demae Omoshiro Lab., Technical Dept., Tottori Univ.
335	**The spinning tops spin, the earth spins,and Science explores the wonder of spinning.**	Japanese Society of Science Books for Children
336	**The Latest Manufacturing and SDG Experiences Linked to Everyday Life**	Seigakuin & Joshi Seigakuin (GX & DX Unit)

Open space B, Telecom Center Building 3F

Saturday, October 26

26-3B10	**Let's talk together! "Decarbonizing with Ammonia" Part2**	Clean Fuel Ammonia Association
26-3B13	**STI for SDGs: Shaping the Future with the Power of Science!**	JST-RISTEX
26-3B15	**Unraveling the Mysteries of Viruses: From Cutting-Edge Research to a Future of Coexistence**	Division of Systems Virology, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo

Sunday, October 27

27-3B10	**What's a PhD? ~Speak Out: Youth's Opinion**	(Optional Group) Supporting future scientists
27-3B13	**A handmade projection experiment using light to see how sugar candy and rock salt melt**	Yuhei Natsume
27-3B15	**Smart way with functional labelled foods**	Life & Bio plaza 21

Booth, Telecom Center Building 4F

From Saturday, October 26th to 27th Sunday

401	**Dialogue Studies on Science Communication**	Residents of Room #401
402	**flasko workshop, think together about scientists, science and the future**	frasko: A science media platform bridging the gap between scientists and the public
403	**Card Game that Makes You Love Science, Developed Through Dialogue with a Generative AI**	EGCs / University Student Team
404	**Creating a New World with Brain and SF: "Neu World"**	"Neu World" ~ Moonshot Research and Development Program Goal 1 Kanai Project "Internet of Brains (IoB)" ~

405	**DALL-E MUSEUM -Dialogue about our future, AI and I-**	Rikkyo University, College of Science, Science Communication Office for Liberal Arts
406	**Shape scientific knowledge and touch it and think about it!**	SiCP
407	**We'd love to hear your thoughts! Together, let's co-create the future with science.**	Japanese Association for the Advancement of Science (JAAS)
408	**What is the ILC?**	Bureau of ILC Promotion, Iwate Prefectural Government
409	**Demonstration of the Chemical Reaction Game, a metaphor for human relationships that brings people together**	Environment & Gaming Research Group, Keio University
410	**Let's dearly talk on deer**	The choice sprits of CoSTEP 19th
411	**How Well Do You Know Animals? Discover the Hidden Lives of Animals!**	Experiencing the perspective of animals project
412	**"Learning from the Past? The golden eagle benefits from Nature Positive"**	Raptors Conservation Center
413	**The Threat to Biodiversity. Can Medaka and Crayfish Coexist?**	The Japan Biodiversity Association. Mizumoto Nature Project.
414	**"Snow and Ice" is an Antenna to Explore the Future of Earth!**	Kanto-Chubu-Nishinihon Branch of the Japanese Society of Snow and Ice
415	**Scientifically recreating what happened during the Noto Peninsula earthquake**	Dr. Nadarenja's Science Experiment Club
416	**Nature-inspired Technologies: Learning from Living Organisms**	The University of Tokyo Graduate School of Agricultural and Life Sciences, Kohsaka Laboratory
417	**Design and implementation of an educational game for understanding what life is**	Department of Applied Bioscience, Kanagawa Institute of Technology
418	**Why the Arctic Now!? -Connection Between Climate Change and Me-**	Arctic Challenge for Sustainability II
419	**Deep Sea Rocks: What's at the Bottom of the Sea?**	JAMSTEC Research Institute for Marine Geodynamics (IMG) & Research Institute for Value-Added-Information Generation (VAiG)
420	**Let's consider the SDGs from gifts of the sea!**	Chemistry and Fisheries Division Group of the Institute of Professional Engineers, Japan
421	**Wondering about the Future of Human Life and Mother Sea**	Ocean Literacy and Education Panel, the Oceanographic Society of Japan
422	**Let's observe the red tide with your phone!**	TUMSAT WANTED: RED Project Team / Edomae ESD Council / Office of Management and Strategy for Marine Studies (MS-Square)
423	**Nature's Tiny Heroes: Soil Microbes Rise Against Climate Change!**	Citizen Science "Soil-in-a-Bottle"
424	**climate change × card game ~talk about science~**	Kyoto Sangyo University - Laboratory of science communication
425	**Calling Future Scientists: Exciting Euglena Experiments!**	Euglena Co., Ltd.
426	**Journey for co-creating our future through Science Agora**	UTaTané, JST-RISTEX

Open space C, Telecom Center Building 4F

Saturday, October 26

26-4C10	**Let's think about adaptation to climate change through "SUGOROKU"!**	National Institute for Environmental Studies
26-4C13	**Mobile microscope brings you to the small world of Antarctica**	Life is small Projects
26-4C15	**Children's Science Olympiad: Foucault challenges with a 5-yen coin**	Nico Nico Science Labo

Sunday, October 27

27-4C10	**New Horizons brought by Chromatin Research**	ERATO Kurumizaka Chromatin Atlas Project
27-4C13	**Innovation Youth: Dialoguing the Future of "Science"**	Science for Policy Module, Social Cluster, Kyushu University Institute of Asia-Oceania Studies, Kyushu University
27-4C15	**An interactive workshop using the card game "Moon Shooter" to think about future research.**	UTokyo ELSI Game Lab & Ludix Lab

Open space D, Telecom Center Building 4F

Saturday, October 26

26-4D10	**STS Statement Science Session**	Center for Science, Technology and Innovation Policy Studies, Kyushu University
26-4D13	**IUCN Red List of Threatened Penguins**	The University of Penguin
26-4D15	**Science Court File: The Dark Matter Trial**	The Nagoya University Science Court

Sunday, October 27

27-4D10	**Why is the accumulation of knowledge necessary? And what is needed to establish it?**	Dr. KOMAI, Shoji
27-4D13	**Coloring your local place with kid's Imagination and creativity**	E'mu by EKKYO.HUB
27-4D15	**Let's look around SCIENCE AGORA with "ELSI" Keyword Map**	RISTEX ELSI Program Secretariat

Booth, Telecom Center Building 5F

From Saturday, October 26th to 27th Sunday

501	**IVRC2024 metaverse track LEAP STAGE work inrroduction**	IVRC Committee, VRSJ
502	**Sleeping in Sleeper Train (IVRC2024 LEAP STAGE Advancement Work)**	Rikkyo Ikebukuro Senior High School Mathematical Science Club
503	**The Hidden Shadow of the Future ~Becoming the Ultimate Hunter After Picking Up a Treasure that Controls the Sun~ (IVRC2024 LEAP STAGE Advancement Work)**	Japan Advanced Institute of Science and Technology
504	**The Factory for Listening (IVRC2024 LEAP STAGE Advancement Work)**	IAMAS
505	**Gravity Paradox (IVRC2024 LEAP STAGE Advancement Work)**	Kogakuin University VR Project
506	**Dimensional Cutting Sword (IVRC2024 LEAP STAGE Advancement Work)**	The University of Electro-Communications, Class 1, Media Informatics Program
507	**Pulling! Cutting! Hataage Kite Battle VR!! (IVRC2024 LEAP STAGE Advancement Work)**	KuMA (Kumamoto University Faculty of Engineering Official Circle)
508	**4DEscape (IVRC2024 LEAP STAGE Advancement Work)**	Polytechnique Montréal / UCO Laval
509	**I vs. Me (IVRC2024 LEAP STAGE Advancement Work)**	Four-th people
510	**Virtual Molting (IVRC2024 LEAP STAGE Advancement Work)**	Uruizaka Toma
511	**Fighting of Shield (IVRC2024 LEAP STAGE Advancement Work)**	Department of Frontier Media Science Program, Graduate School of Advanced Mathematical Sciences, Meiji University
512	**Don't Stop the Cameras: The Ultimate Formula Race Broadcast Experience (IVRC2024 LEAP STAGE Advancement Work)**	Gifu University
513	**Let's enjoy producing "One S&T poster for every household"**	"One S&T poster for every household" Production Team
514	**Defeat the Carbon Dioxide Overlord :Play Game and Consider Sustainable Community**	Gimmi-Lab.
515	**Innovative Adhesion Technology Based on 4-Dimensional Multi-Scale Analysis of Interface**	Kyushu University
516	**Tokyo 2300 Speculative Map of Sea Level Rise**	Water City Project
517	**Let's experience a huge earthquake in VR! Enjoy learning disaster prevention through the apps and quizzes!**	National Research Institute for Earth Science and Disaster Resilience
518	**The future of our community with disaster prevention club**	Arakawa Third Junior High School
519	**bridge maintenance management card game**	Japanese Congress for Infrastructure Management (Citizen participation forum)
520	**Innovation will change Fukushima**	Fukushima Innovation Coast Promotion Organization
521	**Co-creating our future from creative activities**	UTaTané
522	**Rediscovering unexpected uses for wood! Contribution to the future city**	Japan Society of Civil Engineers Wood Engineering Committee
523	**Future for Urban DAC-U System (Artificial Photosynthesis)**	NEDO Moonshot R&D Project "Integrated Electrochemical Systems for Scalable CO2 Conversion to Chemical Feedstocks"
524	**Discover the Mystery of Ultrasound**	Ultrasonic Aspire Community (University of Tsukuba)
525	**Experience the fascinating 'life of light' of next-generation light-emitting materials!**	LMAiR
526	**Learning about the future of energy with fuel cells**	Osaka Institute of Technology
527	**"Hydrogen": A key to realize Carbon Free Future**	Japan Atomic Energy Agency
528	**Advancing towards the realization of fusion energy!**	National Institutes for Quantum Science and Technology
529	**Turn Your Room Into a Space Museum: Learning Through Immersive Social Interactions Using VR**	Virtual Space Program / Cosmoria: VR Museum of Space
530	**Let's take apart a quantum computer!**	RIKEN Center for Quantum Computing (RQC)
531	**Nature Positive Experience with Future Seikatsu-sha**	Hakuhodo Nature Positive Studio
532	**What will the education of the future be like? Real lessons at home!**	Future Teacher Team
533	**Let's see, touch, and try. You are a digital developer!**	Tokyo Metropolitan Fuji High School, junior high school / Science club of Physics
534	**FUNABOT: Fabric-Utilized Natural Actuated roBOT - Imagine how the world would change if fabric started moving. -**	FUNABOT Research Group, Doki Lab., Nagoya Univ.
535	**Programming Expands Your World**	NIPPON STEEL Hitachi Systems Solutions, Inc. / SEIGAKUIN JUNIOR & SENIOR HIGH SCHOOL / JOSHISEIGAKUIN JUNIOR & SENIOR HIGH SCHOOL

Open space E, Telecom Center Building 5F

Saturday, October 26

26-5E10	**Co-create future medical care!**	JST Moonshot R&D Program, Moonshot Goal 2 / Miraikan
26-5E13	**A Flying Car in Every Household!? - Let's Make A Flying Car Route Map**	Comprehensive Research of the Ethical, Legal and Social Issues as Prerequisites for the Social Acceptance of Urban Air Mobility, R&D Project, RInCA Program, RISTEX-JST
26-5E15	**Healthcare Services and the Future: A Dialogue with Medical Professionals**	AMED Healthcare Service Guideline / Statement Development Team

Sunday, October 27

27-5E10	**What is the Future of Tech-Savvy Women? A Technological Future for Living a Human Life.**	Kanagawa Institute of Technology
27-5E13	**Secret Gadget Card Game ~the emerging technologies save the world!?~**	Nitobe Bunka Junior & Senior High School Science Lab・Institute of Industrial Science, the University of Tokyo MATSUYAMA Lab
27-5E15	**High Schoolers in Research? – Expanding Lab Internships for Teens**	ST-AR (STudent-Academia Research) Project

Booth, Miraikan

From Saturday, October 26th to 27th Sunday

M101	**Advanced Telemedicine Initiative Utilizing Mobile Medical Vehicles and 5G Technology**	Tokyo Women's Medical University, NTT DOCOMO, INC.

session, Miraikan

Saturday, October 26

26-Ms10	**The Current State of Science Communication and Challenges in Japan**	JST-RISTEX
26-Mm13	**Explore the technology that creates the advanced food**	Ministry of Agriculture, Forestry and Fisheries
26-Mi14	**Let's talk together how we use brain organoids and embryoids derived from pluripotent stem cells for research**	Japan Health Research Promotion Bureau, Core Center for Regenerative Medicine and Cell and Gene Therapy

Sunday, October 27

27-Mi10	**Students' Idea Factory 2024 Final Presentation**	JAAS - Japanese Association for the Advancement of Science
27-Md14	**Students' Idea Factory 2024 Final Presentation**	JAAS - Japanese Association for the Advancement of Science
27-Mm13	**Awards Ceremony for the 5th Brilliant Female Researchers Award (The Jun Ashida Award)**	JST

Online pre-event: Friday, 25th October

eve	**Ask the contributors about the key points of exhibition or session planning**	JST-RISTEX

Other: From Saturday, October 26th to 27th Sunday

	Let AI Guide You to recommend exhibits! AI Booth Rally	AI Technology Consortium : AITeC, AIST, JST-RISTEX

The Science Agora Vision

The vision sets forth the long-term objective that we wish to make through the Science Agora.

A future woven through dialogue between science & daily life

Science and technology have developed in parallel with wealth and power in the 20th century. However, in the face of limited resources on Earth and growing strain on the world, we are now beginning to see the limitations of science and technology. In particular, as we make the transition from a growth society into a mature society, the Japan of today is confronted by many problems and it has become extremely difficult to see ahead into the future. Therefore, we felt that a space was needed where relevant stakeholders could come together to consider the future of science and society, respecting the views of others, and create a future. We hope to foster such a culture. Furthermore, there are diverse attitudes and approaches depending on the country/region and culture, and we hope to explore methods that are unique to Japan.

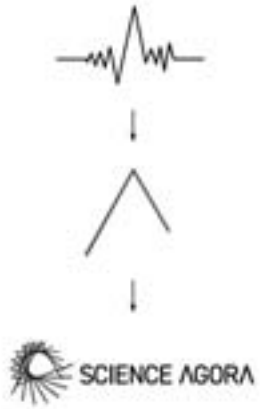
[Key points]

①We emphasized not only "creating a space," but also the approach of collaborative thinking to create the society of the future.

②The concept embedded in "daily life": The focus may be on the daily lives and the ways individuals live their lives, but we believe that this also leads to consideration of society as a whole.

③The concept embedded in "weaving": The importance of exploring methods that are unique to Japan for the creation of a future society. It calls to mind the image of spinning thread - a process of creating harmony in the sense of bringing short, thin, disjointed fibers together, gradually building up and creating something meaningful rather than taking a single leap all at once.

The story behind the brand logo



The moment of discovery or revelation brings enormous joy. This logo represents the feeling of that moment. Showing one element replicated and linked with other elements, it is the symbol that shows the full breadth of many elements gathered in one place. Its imperfect form shows that the future is still under development. It expresses the enormous power of dialogue and shared discoveries to create the future.

Science Agora 2024 Promotion Committee

Chair **Akira Tsugita** (JST Vice President)

member **Miki Igarashi** (Associate Professor, Education Development Organization, Tokyo City University)

member **Yoichi Ito** (Executive Director, National Museum of Emerging Science and Innovation (Miraikan))

member **Masahiko Inami** (Special Advisor to the President for The University of Tokyo, Deputy Director / Professor for Advanced Science and Technology)

member **Yoko Kamimura** (Chief Evangelist/ Community Designer/ Partner, SUNDRED Corporation)

member **Shio Kawagoe** (Associate Professor, Institute of Industrial Science,The University of Tokyo)

member **Sawako Shigeto** (Professor, The Graduate School of Project Design)

member **Ryoichi Shinkuma** (Professor, Shibaura Institute of Technology; CTO, Hyper Digital Twins Co., Ltd.; Chair of MEIS Society)

member **Tatsuya Honda** (Ontenna Project Leader, Social Technologies Implementation Office, Converging Technologies Laboratory, FUJITSU LIMITED)

member **Taichi Masu** (Assistant Professor, Harris Science Research Institute, Doshisha University)

member **Yuko Morita** (Specialist, Department of Planning and Management, Research Institute of Science & Technology for Society, JST)

As of November 2024 ※Titles omitted

Science Agora 2025

The event is to be held again in 2025

https://www.jst.go.jp/sis/scienceagora/

Science Agora 2024

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