Welcome International Participants!

As this event is mainly for the general public residing in Japan, the official language is Japanese Non-Japanese speakers will still be able to enjoy firsthand experience and selected international sessions. If you are interested in visiting or exhibiting, please contact us at official website.

ScienceAgora2014(expectation)

2014.11/8 (sat) ~9 (sun) Tokyo, JAPAN http://www.jst.go.jp/csc/scienceagora/











http://www.jst.go.jp/csc/scienceagora/



Center for Science Communication, Japan Science and Technology Agency (JST) Address: 5-3 Yonbancho, Chiyoda-Ku, Tokyo 102-8666 JAPAN Tel: +81-3-5214-7493 | Fax: +81-3-5214-8088 | Email: agora@jst.go.jp

2013 PROGRAMS

WPI Science LIVE!

World Premier International Research Center Initiative (WPI) aimed for an interactive program creating a bond between researchers and visitors by directly conveying the research contents through short lectures, talk sessions and experiments/demonstrations carried out by the top researchers from across the

world conducting studies at the Center and answering the questions from visitors on site. It would be extremely successful if fascinating state-of-the-art science and researchers' passion led to visitors' interest in science and were conveyed as messages to



World Premier International Research Center Initiative (WPI)

Let's Discover a New Element! – Naming Rights for the First Time in Asia

This is the world's dominant research center for nuclear physics. Since we are researching an invisible world, it was not easy to exhibit such contents. We always try to make the visitors feel familiar to nucleus. Therefore, we aim for a participatory exhibition as far as possible. As one of prime exhibits this time, we

made a nuclear illustration using all over the wall of our booth in which visitors put seals of nucleus. It was hard for us to prepare more than 6,500 seals of nucleus. There were a lot of smile-provoking scenes where parent and child put a seal on it cooperating



Nishina Center for Accelerator-Based Science, RIKEN

Outreach Activities of Nagoya University Aimed at Regional Partnership

Aichi Science Festival is an event of scientific communication linking regional cooperative activities of municipalities and science museums with research information transmission of universities and a unique research outreach activity which is rare in the country. Science Agora introduced a support system for researchers associated with mandatory research

outreach and regional cooperative activities as well as the report of the festival this year. We conducted an exchange of information on the development of techniques and future directions and a useful exchange of opinions on roles, regional contribution and outreach of universities with the people involved in scientific communication



Research Administration Office of Nagoya University and Aichi Science Festival Office

Color Magic! Curious Chemical Experiments!

In our exhibition, "Color Magic! Curious Chemical Experiments!", we carried out safe, easy and delightful chemical experiments such as disappeared pictures using iodine reaction of starch and color magic showing color changes depending on acid or alkali. Around 200 people including parents and children, junior high and high school students, college students who want to be

teachers and primary teachers participated in the experiments. The Chemical Society of Japan (CSJ) is engaged in activities to convey the fun, pleasure and social contribution of chemistry such as holding a chemical experiment show for children, having experiment classes and presenting papers on the result: of chemical clubs' studies on a routine basis



Spread & Exchange Committee, Education & Spread Department of the Chemical Society of Japan

Let's think together about Geological Disposal of High-level Radioactive Waste (HLW)

NUMO displayed an exhibition trailer for introducing our project, one of important social issues. We provided information on concept and safe management by using mock-ups and panels. At the hands-on experiment, the participants showed interests saying, "I see…" when they observed water-absorbed bentonite, of which material would be used for engineered barrier system, prevented water flow. We were impressed with our visitors' attitudes trying to understand in a scientific manner, such as by not jumping into conclusion without being informed or by learning on safety and risk simultaneously. Science Agora gave us a chance to think about future direction of NUMO's public



2013 PROGRAMS

Running of Miniature Bullet Trains

In the mechanics course of Kasukabe Technical High School in Saitama Prefecture, the third-grade students have manufactured miniature bullet trains which run on five-inch rails giving people a ride in the past three years in the class of project study aimed at the level of commercially available product. They are focusing on lots of things when manufacturing such as shiny body, safety

Around 250 elementary, junior high and high school students

conducting scientific research presented posters showing their

research results. About 650 people including general attendees

participated in this program. The contents presented spanned

the entirety of the sciences, with some groups presenting

science festivals all over Japan-

results achieved by school science teams while other students

In our booth, we presented the report, concept and

main character of 5th Tokyo International Science

Festival (TISF) as well as other science festivals and

science cafes throughout Japan. Furthermore, at the

communication space for exhibitors, we held the kick-off

meeting to make a network of hosts of science festivals

Under the theme of lights and colors, we repeated the cycle

of scientific work, observation, interactive science

communication, demonstration/experiment and reading/talk

on books again and again such as demonstration of lights

through polarizer, diffraction grating and LED. We enjoyed

every minute of the smooth and omnibus 90-minute science

Japanese Society of Science Books for Children

When adverse drug reaction is reported by mass

media, patients and their family members feel

nervous and some discontinues treatment.

Therefore, we prepared a booklet, "Adverse Drug

Reaction – Let us keep the information within us",

and held a symposium to unveil it in Science

Executive Committee of the 5th Tokyo International Science Festival

Look and Listen! Chemical Picture Book Readers Come Along! Part IV

Symposium: Let's Discuss and Think about Adverse Drug Reaction

Mechanics course of Kasukabe Technical High School in Saitama Prefecture

Advanced Science Research Presentations by School Students 2013

Extending network of those who hold common grounds of science -connecting

and regenerative control of the motor. The school students laid and removed tracks and controlled the traffic all by themselves and introduced the processes of study and manufacturing. Many people took a ride on the trains with delight and the school students found a rewarding sense of satisfaction for improved their skills.

presenting individual research undertaken at university

laboratories and their homes. Opinions were exchanged not

only among participating school students and educators

(science school advisors and university staff), but were also

proactively exchanged with general attendees, making this

and events so that we shared the ideas, results and

problems each participant had had. We showed lots of

data on TISF, and are confident that we created novel

"Agora" for science communication by grass-roots and

regional alliances via our session and booth with fruitf

program together with curious visitors. We were greatly

impressed by the cheers from the audience. The know-how

accumulated by exhibition in Science Agora has been fed

back to research members' daily activities and further

developed. The wave of active exchange between exhibitors

Agora. Although it was the first time for us t

participate Science Agora, we were glad that

many people joined and we had a excellent time

to discuss about the drug education learning

adverse drug reaction together

contents from whole Japan.

has also been expanded.

particularly stimulating program for the school students



2013 PROGRAMS

AIST Tokyo Waterfront introduced research results and enlightened people about science through exhibitions of the research results, hands-on events and lectures. A therapeutic robot, Paro, and a humanoid robot, Choromete-2, attracted the attention of visitors. In hands-on

events, Hankomeijin (stamp master), Micromobility and Noboreon gained popularity More than 1,500 visitors had contact with exhibitors during the event of Science



AIST Tokvo Waterfront

TOSANGIKEN experience tour - the world of manufacturing -

About 160 visitors joined the TOSANGIKEN experience tour in two days. We had opened several laboratories and facilities, which we use in everyday activities. In the plastic molding process room, visitors received injection-molded blocks as souvenirs, and were surprised by a rumble of thunder in the high-voltage evaluation room. Many visitors - must have

visited TIRI for the first time – seemed to have enjoyed our tour very much. We were pleased with the results that 97% of visitors answered that "we want to participate in this tour again". While contacting with other research institutes and universities, we would like to liven up Science Agora f more in the event which enjoys science.





We presented a panel discussion regarding the relationship between money and happiness in cooperation with international students, researchers and science communicators. About 50 people from Asia including Japan and Europe participated in this discussion to exchange various opinions across

borders. We tried to have an interactive dialogue by asking questions and opinions from the audience as a place for science communication activities. The social science contents have been highly evaluated. We will adopt this vision as a topic of future

from various angles toward the next revision of educational

guidelines aiming to further improve scientific capability required

as a world leader in science and technology and satisfy science

which is attractive and essential to even high school students not



Symposium – Science to be learned in a high school –

This symposium was held as a kickoff event to start discussing in a cross-sectoral manner with relevant organizations and groups including Science Council of Japan toward solving the issues of secondary school education. We discussed the possibility and

contents of compulsory common science course in a high school

Our year 2030

Lectures and sessions of young and female researchers were presented with the primary objective of deepening youth's interest in science and technology. Researchers' speeches enjoy great popularity and there are comments saying, "It was helpful to my prospective course." and "I would like to enjoy conducting a research like the

lecturers." After the session, a time was set to directly exchange between youth and researchers regarding daily studies and prospective courses. The Cabinet Office continues to promote human resource development of the younger generation playing a role in innovation of science and technology for the next generation.



HIGHLIGHTS of 2013 EVENTS Tokyo, JAPAN

Design: Nozomi Ohishi, Tamae Horiuchi, Sayoko Tanaka (School of Art & Design, University of Tsukuba)

Cabinet Office

going to universities of science and technology

NUMO - Nuclear Waste Management Organization of Japan

ABOUT SCIENCE AGORA

Science Agora is an open place of encounter where science serves as a catalyst.

*The Greek word "agora" means "place of encounter" or "meeting."

Science has now become inseparable closely related with our daily lives. The fact that many scientific issues affect our whole of society requires the participation and engagement of diverse stakeholders—and the public—besides expert groups in the scientific community. Thus, to ensure a better tomorrow of ours, we should take one more step forward: to be willing to be more informed of, and to think together about, what science brings us and the relationship between science and ourselves.

Science communication has been a key concept in the evolving links between science and society. People who are involved in this function, known as science communicators, might be teachers at schools who impart knowledge to students, as well as mediators or interpreters who involve people in finding out the values and meanings of specific scientific outcomes, sometimes giving feedback to scientists and policymakers who drive research activities.

POLITICAL BACKGROUND

Science Agora started in 2006 based on Japan's Science and Technology Basic Plan. The Third Plan (effective in FY2006-2010) includes a chapter entitled "Science and Technology to Be Supported by Society and the Public," in which promotion of science communication is described using expressions such as "Improving the Public Awareness of Science and Technology." The subsequent Fourth Plan (FY2011-2015) which was developed after the experience of the Great East Japan Earthquake makes a further step forward in this effort; namely, to encourage involvement and collaboration with the public in national science and technology policy-making and communication

Based on the Fourth Plan, Japan Science and Technology Agency established the Center for Science Communication in 2012 to more deeply seek what is truly helpful science communication for the public and how to promote the activation of self-sustaining nationwide activities. Science Agora 2012 focused on the following two points as its principles:





Since its inception in 2006, Science Agora has been offering a place for such science communication activities, the number of its participants being increasing every year. The most recent Science Agora 2013 invited 232 programs offered by 212 organizing parties, and had roughly 2,700 exhibitors served for more than 5,800 visitors during the 2-day



event. Science Agora welcomes unique proposals from any geographic areas; in reality, some very ambitious ones inspire other exhibitors and presenters to apply practices in their own context. In this way, Science Agora functions as "hub" to evolve the network, and create expand the definition of science

BASIC PRINCIPLES

(1)Moving from Conveying to Creating

Besides communication aimed at conveying wonder and insight of science, we continue to expand our communication aimed to be at creating our society together.

(2)Promoting interaction and development activities

Science Agora should also be "trade show" for diverse science communication activities. At Science Agora, we expect that new linkups will develop from interactions, and that the development will stimulate science communication in every region across Japan.

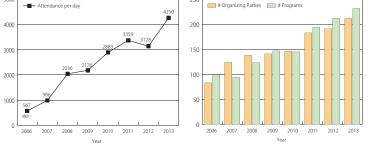


EVENT STATISTICS

FACT SHEET

Science Agora enjoys steady growth. It has been contributing to expansion of networks among practitioners of nationwide excellence, and thus offers a myriad of communication opportunities for everyone at all ages.

#	Year	Date	Place	Attendance	# Programs	# Partie
1	2006	Sat-Mon, Nov. 25-27	Tokyo	1700 (estimated)	100	83
2	2007	Fri-Sun, Nov. 23-25	Tokyo	2959	94	124
3	2008	Sat-Mon, Nov. 22-24	Tokyo	6109	123	138
4	2009	Sat-Tue, Oct. 31-Nov. 3	Tokyo	8705	147	141
5	2010	Fri-Sun, Nov. 19-21	Tokyo	5934	145	146
6	2011	Fri-Sun, Nov. 18-20	Tokyo	7057	194	183
7	2012	Sat-Sun, Nov. 10-11	Tokyo	6255	212	191
8	2013	Sat-Sun, Nov. 9-10	Tokyo	8500	232	210



Everyone enjoyed communication, irrespective of their roles as exhibitors or visitors

Who visited?

2013 FACTS

©Both children and adults enjoyed the visit.

College / University 7.8%

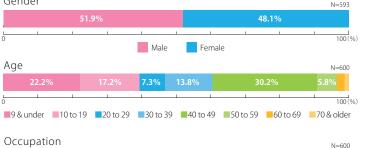
Graduate 5.0%

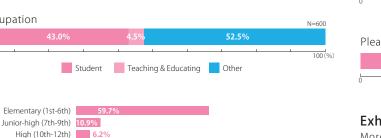
Other 10.5%

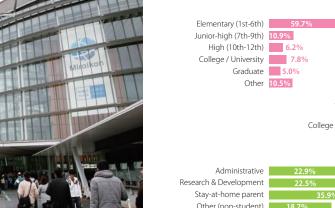
Administrative 22.9%

Other (non-student) 18.7%

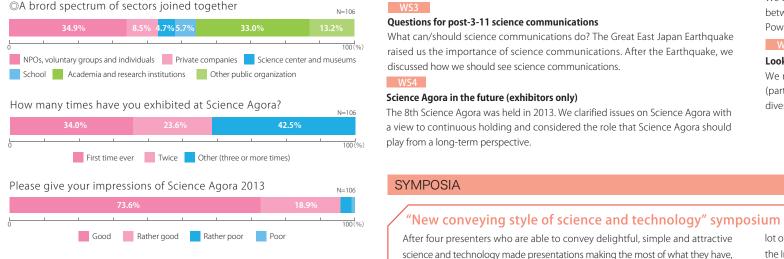
ay-at-home parent 35.9%







Who exhibited?



Exhibition Platform

More than 200 programs on site had identical methodologies. Larger institutions were able to exhibit at interactive booths, and individual volunteers were able to collaborate with each other to host symposia. Subjects also spanned from STEM education for lower-age children to

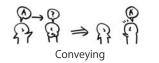
cutting-edge science and technology Exhibition Platform developed by both academia and All the

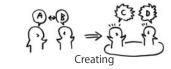
maustry.	POSI
All the programs were required,	Han
however, to be communicative, as	Sym
face-to-face discussion. This is the core	Wor
value at Science Agora.	Dem
3	Tota

ds-on Programs SUMMARY SESSION posia & Talks kshops & Cafés an overall discussion spanning the entirety of Science Agora were undertaken. A panel discussion was held under the theme of "Results of Science Agora 2013" and

2013 Programs

Science Agora provided venues for conveying and creating knowledge such as symposiums in which brilliant presenters took the rostrums to explore new communications of science and technology and workshops to discuss various issues on science and technology.





Illustrated by Shishin Kawamoto

SEVEN CONCECUTIVE WORK SHOPS

In order to provide venues for productive and various dialogues, the following seven workshops such as future sessions and graphic facilitations were held at Innovation Hall of National Museum of Emerging Science and Innovation: Host: Center for Science Communication, Japan Science and Technology Agency

WS1 WS2

Creating communication: "Highest questions" session (WS1) Creating communication: "My questions" session (WS2)

Creating communications were implemented through future sessions (venues for creating cooperative actions through dialogue by putting aside differences such as between company/public/NPO sectors, those between departments in an organization and those between specialized fields in order to solve complicated issues where there is no apparent solution) for specialists (WS1) and citizens (WS2).

Questions for post-3-11 science communications

What can/should science communications do? The Great East Japan Earthquake raised us the importance of science communications. After the Earthquake, we discussed how we should see science communications.

Science Agora in the future (exhibitors only)

The 8th Science Agora was held in 2013. We clarified issues on Science Agora with a view to continuous holding and considered the role that Science Agora should play from a long-term perspective.

Science stand - face-to-face meeting with science -

What is interesting about scientific research? What results are expected? What can we do for scientific development? We provided an opportunity for a discussion with researchers and citizens.

Middle media as a first-aid box of information

We discussed issues found in the past two symposiums held to consider frictions between science and society caused by the accident of Fukushima Daiichi Nuclear Power Station and future prospects.

Looking into science – normal world where you cannot see

We made the people aware of the worlds where scientists see and where we (participants) usually see using a tool specialized for seeing to find the limit and diversity of such worlds.

so that Science Agora can function as a place to connect exhibitors.

At Science Agora, since we expect that new linkups will develop from our interactions and that these developments will stimulate science communication in every region across Japan, we implemented venue zoning. There were many proposals for ways to categorize these zones: by researchers, media, schools, science museums, volunteers, visitors, government administration, companies, and so on. However, at this Science Agora, three Special Zones were established: a Leading-Edge Science Zone, a Regional Linkup Zone, and a Student Presentation/Educator Interaction Zone. In addition to facilitating interaction both within zones and among various zones, we expect this to further facilitate independent interactions even after the end of the conference.

presentations and discussions in meeting rooms, and a diversity of other programs.

Social Zone: Demonstrations for children also to enjoy

as well as universities and research

Hub of regional activities

(Special) Leading-Edge Booths operated by research institutions, science Zone: and opportunities to see researchers in

Communication that truly benefits general people

Activation of self-sustaining activities nationwide

(Special) Regional Linkup Zone: Presentations by science centers and Socia groups serving as hubs for regional linkups

institutions eager for linkups (Special) Student Presentation Student presentations, with participating

Basic Principles (from 2012)

/Educator Interaction Zone: schools eager for science education linkups.

PROMOTION POINT

ZONE COMMENTARY

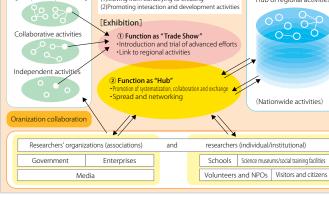
Based on Basic Principles (P3), Science Agora 2013 focused n the following two functions;

1) Function as "Trade Show"

For people who are interested in science communication activities but cannot communicate well, those operating in the region but cannot produce the expected results and those seeking a way to collaborate with local events, Science Agora gathered various model cases in active format as an exhibition of science communication activities to solve such issues and introduced advanced efforts.

²Function as "Hub"

Science Agora is not only a 2-day event but also has a function as a hub which connects participants' daily activities. Science Agora has focused on the development of new techniques such as networking to enhance daily activities and efforts to evolve activities in collaboration with different areas









we discussed a new conveying style of science and technology. We talked about a which takes the world by storm. Science and technology for all Japanese: making a new value across areas In "science and technology for all Japanese" project, a report which systematically /csc/material/s4a.html). In this session, we refrected on "science and technology summarizes basic concepts of science technology that Japanese should share as a for all Japanese" project, presented topics of the development of the results and literacy of science and technology was prepared in 2008 (http://www.jst.go.jp held a panel discussion under the theme of a new value necessary for innovation. The summary session was held on the final day, reports on zones and workshops and "What Science Agora should be in the future." The presenters pointed out issues and

made comments and proposals from diversified viewpoints and the discussion led to

lot of topics in a short time and the visitors and the viewers of "Niconico live" on

the Internet, "Christmas lecture", "microscope" using a smartphone and TED style