



Science Agora 2015 outline



About Science Agora

Science Agora is an open arena for people from different sectors who desire a future society harmonized with science. Aggregated in this arena are independent, self-motivated individuals involved in activities that connect people to different areas, sectors, and different generations and nationalities. Science Agora is a platform for people to build a future society where science is inherently rooted through collaboration and mutual respect for diverse values.

Vision

We promote Science Agora 2015 with the following vision, which defines future Science Agora.

“Let’s build a society harmonized with science”

The 10th anniversary Science Agora 2015 is attracting attention as a platform for co-producing value through good science communications among multiple stakeholders in society. For this objective, we categorized the stakeholders of Science Agora 2015 into five sectors (policymakers, scientists, businesspeople, the media, and the general public) to try to meet the various needs.



General information

(1) Schedule: 10:00 - 17:00 November 13th (Fri), 14th (Sat), 15th (Sun), 2015

(2) Venue: Odaiba area, Tokyo

(National Museum of Emerging Science and Innovation (Miraikan), National Institute of Advanced Industrial Science and Technology Tokyo Waterfront, Tokyo Metropolitan Industrial Technology Research Institute, Tokyo International Exchange Center, Symbol Promenade Park, Fuji Television Wangan Studio)

Host :

Japan Science and Technology Agency

Co-hosts and partner :

Science Council of Japan

National Institute of Advanced Industrial Science and Technology

Tokyo Metropolitan Industrial Technology Research Institute

Japan Student Services Organization

Tokyo Academic Park

Tokyo Rinkai Fukutoshin Group,

Fuji Television

Sponsors :

EuroScience

KOFAC

KADOKAWA

Kadokawa Uplink

Supporters :

Cabinet office

Ministry of Foreign Affairs

Ministry of Education, Culture, Sports, Science and Technology

National Museum of Nature and Science

Japan Society for the Promotion of Science

RIKEN

Japan Aerospace Exploration Agency

Japan Agency for Marine-Earth Science and Technology

Japan Atomic Energy Agency

National Astronomical Observatory of Japan

Tokyo Waterfront City Association

Japan Business Federation

Japan Science Foundation/Science Museum

Tokyo Metropolitan Board of Education

Saitama Prefecture Board of Education

Kanagawa Prefectural Government Board of Education

Chiba Prefectural Government Board of Education

National Association of Science Education, Junior High Schools

Japanese Council of Science Museums

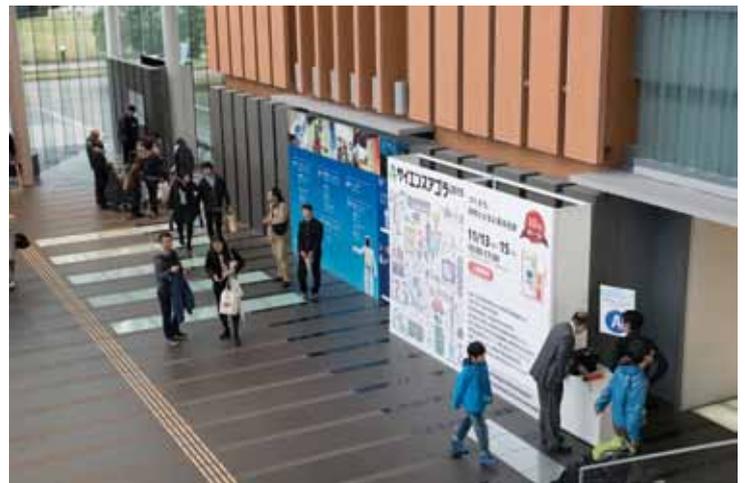
Japan Science Museum Association

Japanese Association of Science & Technology Journalists

Japanese Association for Science Communication

The Japan Society of Applied Physics

The Chemical Society of Japan



■ Agora 2015 Results

Total Number of Participants: **9,145** people

	11/13th (Fri)	11/14th (Sat)	11/15th (Sun)	Satellite	Total
Attendees	787	2,320	3,955	20	7,082
Invitees		57		10	67
Contributors		1,963		10	1,973
Press		23		0	23

※ Satellite event was presented by department of science education:
Saturday, October 3, 2015 "What is required for flexible career choice of school girls?"

Contributors: **169** bodies

Total Contributed Programs: **195** programs

■ Exhibition Program Details

	11/13th (Fri)	11/14th (Sat)	11/15th (Sun)	Satellite	Total
Booth Exhibitions	8	123	119	0	127
Sessions	7	30	36	1	68

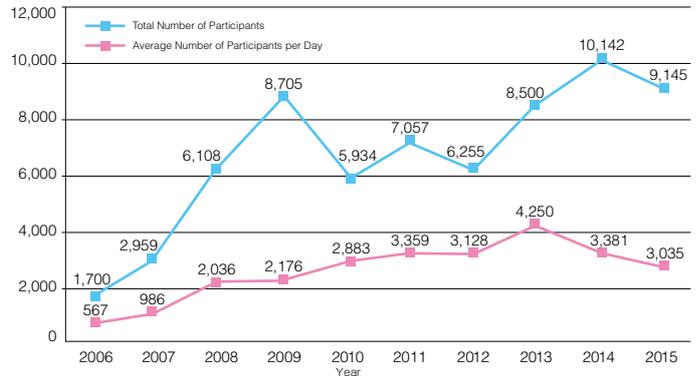
■ Results of Attendees Survey

Period : November 13th(Fri)~15th(Sun),2015
The number of respondents : 659(Number of subjects:7082)
Recovery rate : 9.3%
Questionnaire collection : Questionnaires were distributed at the registration and collected inside the venue

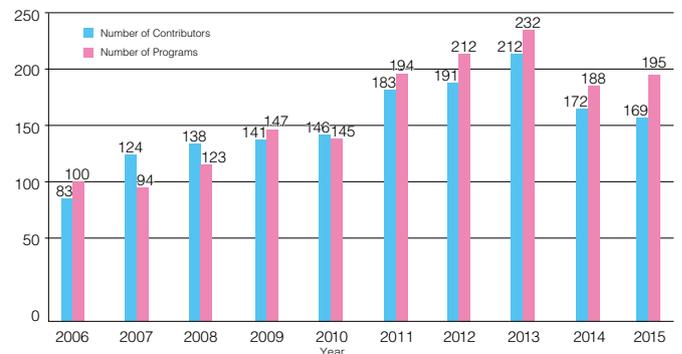
Q Please give feedback on your Science Agora experience.



■ Changes in the Number of Participants



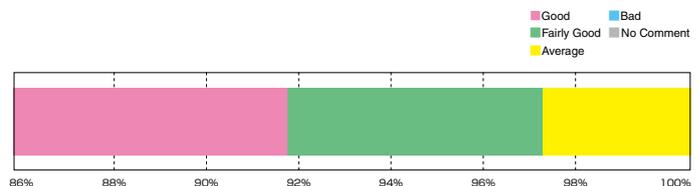
■ Changes in the Number of Contributors and Programs



■ Results of Contributors Survey

Investigative method : Answer accepted from the online form to for all Contributors
Period : December 3rd(Thu)~21th(Mon),2015
The number of respondents : 118

Q Please give feedback on your Science Agora experience.



■Agora Opening Session

Fb-506

Let's build a society harmonized with science Special Session for the 10th Anniversary

Date: 13:30–16:30, November 13th (Fri), 2015

Venue: International Conference Hall(3F) Tokyo International Exchange Center (TIEC)

Organizer: Japan Science and Technology Agency (JST)



Presenters

●Part 1

Michinari Hamaguchi, President, Japan Science and Technology Agency (JST)
Miyoko O. Watanabe, Deputy Executive Director, Japan Science and Technology Agency (JST)
Koichi Morimoto, Director General for Science, Technology and Innovation, Cabinet Office of Japan
Kazuo Todani, Deputy Minister of Education, Culture, Sports, Science and Technology
Tadashi Onodera, Chairman, Committee on New Industry and Technology, Keidanren (Japan Business Federation)/Chairman, KDDI Corporation
Takashi Onishi, President, Science Council of Japan
Koji Takahashi, Executive Vice President, Japan Student Services Organization
Dame Anne Glover, Professor, The University of Aberdeen
Satoru Ohtake, Principal Fellow, Japan Science and Technology Agency (JST)

●Part 2

Hiroshi Amano, Professor, Director, Center for Integrated Research of Future Electronics, Institute of Materials and Systems for Sustainability, Nagoya University
Kazuo Iwano, Principal Fellow, Center for Research and Development Strategy, Japan Science and Technology Agency (JST)
Yuichiro Anzai, President, Japan Society for the Promotion of Science
Kazuo Kyuma, Executive Member, Council for Science, Technology and Innovation, Cabinet Office of Japan
Tateo Arimoto, Professor, National Graduate Institute for Policy Studies (GRIPS)

Overview

The opening of Science Agora, which marked its 10th anniversary this year, was declared in Part 1. Then there were some speeches from guests followed by the keynote lecture by Dame Anne Glover, Professor, the University of Aberdeen in the United Kingdom. During the special session in Part 2, Professor Hiroshi Amano, 2014 Nobel Physics Prize Laureate, gave a special lecture, followed by the panel discussion titled "Cyber Society and Human Beings – REALITY 2.0 and the Society in the Future –", and presenters provided insights regarding the relationships between cutting-edge technologies and the society.



■Keynote Session 1

Fb-506

Possibilities for Science Contents Innovation ~ Accelerating the Interaction between the Frontier Scientists and Creators ~

Date: 10:30–12:30, November 13th (Fri), 2015

Venue: International Conference Hall (3F), Tokyo International Exchange Center (TIEC)

Organizers: Hayakawa Publishing Corporation, Industry-Academia Collaboration Initiative Nonprofit Organization

Presenters

Masahiro Asami, Executive Officer, Director of Technology Business, Director of Intellectual Property Strategy, Director, FUJIFILM Holdings Corporation
Ryosuke Takatsuki, CEO, INSPIRE Corporation
Taiyo Fujii, Science fiction writer/ President, Science Fiction and Fantasy Writers of Japan
Yutaka Matsuo, Associate Professor, Department of Technology Management for Innovation, Graduate School of Engineering, the University of Tokyo/
 Artificial intelligence researcher
Ken Senoh, President, Industry-Academia Collaboration Initiative Nonprofit Organization

Overview

What would emerge when scientific research and science fictions cross each other's path? Inviting experts in different fields such as scientific researchers, technical engineers, writers and venture capitalists, we shared our dreams and discussed possibilities to create a new intellectual field that can arise from the collaboration of science and contents.

■ Keynote Session 2

Ab-105

Science Advice / Open Science: How science is socialized in each country and region?

Date: 10:30–12:45, November 14th (Sat), 2015

Venue: Miraikan Hall (7F), National Museum of Emerging Science and Innovation (Miraikan)

Organizer: Japan Science and Technology Agency(JST)

Presenters

Takao Kuramochi, Senior Deputy Director-General, Center for Research and Development Strategy (CRDS), Japan Science and Technology Agency (JST)

Jan Staman, Special Advisor, SciREX Center, National Graduate Institute for Policy Studies (GRIPS)

Yuko Harayama, Executive Member, Council for Science, Technology and Innovation, Cabinet Office of Japan

David Cope, Fellow, Clare Hall, Cambridge University

Michiharu Nakamura, Counselor to the President, Japan Science and Technology Agency(JST)

Tateo Arimoto, Professor, National Graduate Institute for Policy Studies (GRIPS)

Peter Tindemans, Secretary General, Euroscience

Seunghwan Kim, President, Korea Foundation for the Advancement of Science and Creativity (KOFAC)

Massimiano Bucchi, Professor, The University of Trento

Mohau Pheko, Ambassador extraordinary and plenipotentiary, Embassy of the Republic of South Africa in Tokyo

Tadashi Kobayashi, Executive Vice President, Osaka University

Satoru Ohtake, Principal Fellow, Japan Science and Technology Agency (JST)



Overview

How can scientists and citizens take part in science that is more open to public and democratic driven by the spread of information technology and globalization, and how do they develop their own activity? We discussed the current state and issues.

■ Keynote Session 3

Ab-084

The Future of Cyber Society: Views of Europe and Japan

Date: 13:30–15:00, November 14th (Sat), 2015

Venue: Miraikan Hall (7F), National Museum of Emerging Science and Innovation (Miraikan)

Organizer: Delegation of the European Union to Japan

Presenters

Philippe Codognet, Director, The Regional Office of National Center for Scientific Research (CNRS) for North Asia

Hiroaki Kitano, President and CEO, Sony Computer Science Laboratories,

Nicole Dewandre, Advisor for societal issues to the Director General of the Directorate General, Communications, Networks, Content and Technologies (DG CONNECT), The European Commission

Shuji Hashimoto, Vice President, Waseda University,

Raja Chatila, Director of Research, The French National Center of Scientific Research

Minao Kukita, Associate Professor, Nagoya University

Overview

We are in the middle of "Cyber Society" that is highly connected by networks. How does cyber society influence the industry? And how does it change human lives? In this keynote session, experts and researchers from Japan and Europe discussed from each standpoint.

■ Keynote Session 4

Fb-508

Let's explore the world! – The link between the society and scientists who transformed themselves after studying abroad –

Date: 10:15–11:45, November 15th (Sun), 2015

Venue: International Conference Hall (3F), Tokyo International Exchange Center (TIEC)

Organizer: Japan Science and Technology Agency (JST)

Presenters

Kohei M. Itoh, Professor, Dept. of Applied Physics and Physics-Informatics, Faculty of Science and Technology, Keio University

Masaru Tsuchiya, Principal researcher of a US Department of Energy program/ Visiting associate professor, Kyushu University/ Fellow, United States-Japan Leadership Program

Yukari Tadokoro, Nissan Motor Company Ltd.,

Takehiro Kojima, Canon Inc.

Taka Ohmae, US-based strategy consulting firm

Daisuke Machida, Japan Student Services Organization (JASSO)/ Secretariat, Public-Private Joint Project for Overseas Education Promotion, by the Ministry of Education, Culture, Sports, Science, and Technology(MEXT)



Overview

"What can I experience overseas?" "How did study abroad change my life?" People who had studied overseas shared their experiences and learning from studying abroad to young people.

Keynote Session 5

Fb-509

<International Year of Light Special Session>The Universe, Time, Our Evolution and Future through "Light"

Date: 12:50-16:00, November 15th (Sun), 2015

Venue: International Conference Hall (3F), Tokyo International Exchange Center (TIEC)

Organizer: Japan Science and Technology Agency (JST)

Presenters

Yasuhiko Arakawa, Professor, The University of Tokyo & President, ICO
Tomonori Usuda, Professor, National Astronomical Observatory of Japan
Hidetoshi Katori, Professor, The University of Tokyo
Ryotaro Muramatsu, Artist & President, NAKED Inc.
Kenichi Iga, Professor emeritus, Ex-president, Tokyo Institute of Technology



Overview

2015 is the International Year of Light declared by the United Nations. In Agora Keynote Session 5, scholars who have been doing critical research on light and an artist using light were on stage, and they introduced the audience the world of light from various perspectives.

Agora Closing Session

Ab-107

The past and the future of Science Agora

Date: 16:00-18:00 November 15th (Sun), 2015

Venue: Miraikan Hall (7F), National Museum of Emerging Science and Innovation (Miraikan)

Organizer: Japan Science and Technology Agency (JST)

Presenters

Miyoko O. Watanabe, Director-General, Center of Science Communication, Japan Science and Technology Agency (JST)
Yoshiaki Ando, Executive Director, Japan Science and Technology Agency (JST)
Satoru Ohtake, Principal Fellow, Japan Science and Technology Agency (JST)
Shoji Komai, Associate Professor, Nara Institute of Science and Technology/ Immediate former chairperson of National Young Academy of Japan, Presidential Advisor of Science Council of Japan
Mohau Pheko, Ambassador Extraordinary and Plenipotentiary, Embassy of the Republic of South Africa in Japan
Rawiwan Laocharoensuk, Researcher, National Nanotechnology Center in Thailand
Junko Tsuboi, Executive Officer, Kirin Company
Tomoko Ikuta, Director, Office for Interactive Policy Making, Ministry of Education, Culture, Sports, Science and Technology (MEXT)
Peter Tindemans, Secretary General, Euroscience



Overview

In the "Closing Session", Dr. Miyoko O. Watanabe, Director-General of Center of Science Communication, Japan Science and Technology Agency (JST) reported Science Agora's performance this year and presented their achievements up until now. The session was followed by this year's Awards Ceremony, and a panel discussion by professionals to address their prospects for the future and the relationship between science and the society.



Featured Session 1

Ab-104

Lessons Learned to Broaden the Participation of Women in STEM -The Science of Broadening Participation-

Date: 10:30 -13:00, November 13th (Fri), 2015

Venue: Miraikan Hall (7F), National Museum of Emerging Science and Innovation (Miraikan)

Organizer: National Science Foundation (NSF), Japan Science and Technology Agency (JST)

Presenters

Kellina Craig-Henderson, Deputy Assistant Director, Social and Economic Sciences Division, NSF
Cheryl Kaiser, Associate Professor, Department of Psychology, University of Washington
Chad Forbes, Associate Professor, Department of Social Psychology, University of Delaware
Miyoko O. Watanabe, Senior Director, Japan Science and Technology Agency (Director of the Office for Diversity and Inclusion)
Reiko Aoki, Executive Vice President, Kyushu University/ Director of Office for Promotion of Gender Equality
Yuka Ohno, Professor, Department of Economics, Hokkaido University
Ikuko Yao, Associate Professor, Medical Photonics Research Center, Hamamatsu University School of Medicine
Shuichiro Takahashi, COO, Leave a Nest Co., Ltd.
Akira Koda, Executive Director, Japan Science and Technology Agency (JST)

Overview

Although women are beginning to take more prominent roles in the Japanese society, their participation in the field of science, technology, engineering, and mathematics (STEM) is still very limited. This symposium reported on the problems in promoting diversity (a movement to appreciate the differences between gender, race, and religion) along with the importance of overcoming those problems. They pointed out the need for activities based on scientific evidence to change the organizational executive as well as individual awareness. It was also suggested that women were educated with stereotypical and prejudiced gender roles from an early age, preventing their advancement into the field of science and technology.

Featured Session 2

Fb-502

Intense Discussion! Innovation Challenge through Leading-Edge ICT

Date: 13:00 –17:00, November 13th (Fri), 2015

Venue: Media Hall(3F), Tokyo International Exchange Center(TIEC)

Organizer: Japan Science and Technology Agency (JST) Strategy Research Promotion Department

Presenters

Norihito Hagita, Executive Director, Advanced Telecommunications Research Institute International (ATR)
Stuart Evans (Video lecture), Professor, Carnegie Mellon University
Frances Sol Palrada (Video lecture), Emeritus professor, Universitat Politècnica de Catalunya • Barcelona Tech (UPC)
Minoru Eto, Executive Officer, NTT DOCOMO, Inc.
Ryota Kanei, CEO, ARAYA Brain Imaging
Koichi Kise, Professor, Graduate School of Engineering, Osaka Prefecture University
Kai Kunze, Associate Professor, Graduate School of Media Design, Keio University
Chiaki Hayashi, Co-founder, Loftwork Inc.

Overview

The lecture and panel discussion was held on the subject of "causing innovation (reform by new value creation) and solving social problems through the latest research results of ICT (information communication technology)". Various opinions were exchanged on the importance and requirements in causing innovations and future visions of the society.

Featured Session 3

Ab-091

Fighting Social Problems with Japanese Technology and Social Business

Date: 10:00–12:30, November 14th (Sat), 2015

Venue: Conference Room 1(7F), National Museum of Emerging Science and Innovation (Miraikan)

Organizer: Kyushu University Graduate School and Faculty of Information Science and Electrical Engineering, Grameen Communications Global Communication Center

Presenters

Ashir Ahmed, Associate Professor, Kyushu University Graduate School and Faculty of Information Science and Electrical Engineering
Naoki Nakashima, Professor, Medical Information Center, Kyushu University Hospital
Takuzo Osugi, Specially Appointed Associate Professor, Cross-Boundary Innovation Program, Osaka University
Takashi Tsuno, Researcher, Grameen Communications
Noriharu Maruyama, Regional Group Leader of Healthcare Marketing Department, Konica Minolta, Inc.

Overview

Grameen Communications is an information technology company in the Grameen Bank Group, established by an economist and Nobel Peace Prize winner Muhammad Yunus from Bangladesh. The Graduate School of Kyushu University concluded an exchange agreement with the company to aid the low-income class of Bangladesh through Portable Health Clinic (PHC) services and other businesses. Five people involved with the project spoke about this aid program.

Featured Session 4

Ab-096

Let's Imagine 2020!

Date: 10:00–13:00, November 14th (Sat), 2015

Venue: Conference Room 2(7F), National Museum of Emerging Science and Innovation (Miraikan)

Organizer: Stimulating Science with Art

Presenters

Shoji Komai, Associate Professor, Graduate School of Biological Sciences, Nara Institute of Science and Technology
Massimiano Bucchi, Professor of Sociology, Trent University
Yuichiro Takeuchi, Sony Computer Science Laboratories, Inc.

Overview

Introduced projects combining science and arts and proposed the future vision of science. Cultivated thinking and imagination (imagination and creativity) in the participants through a workshop using modern art and technology.





2015 Major Sessions

Featured Session 5

Ab-087

Open-Science Revolution -Future of Research Promotion through Online Collaboration-

Date: 14:00-16:30, November 14th (Sat), 2015

Venue: Agora Stage C(1F), National Museum of Emerging Science and Innovation (Miraikan)

Organizer: Academist



Presenters

Daiki Horikawa, Specially Appointed Lecturer, Institute for Advanced Biosciences, Keio University
Wataru Suehiro, Doctorate Student of Laboratory of Insect Ecology, Kyoto University Graduate School of Agriculture/Research Fellow, Japan Society for the Promotion of Science
Teruaki Enoto, Program-specific Associate Professor of Department of Astronomy, Kyoto University Hakubi Center
Takayuki Yuasa, Research Fellow, RIKEN
Tsubasa Yumura, Temporary Engineer of CYREC, National Institute of Information and Communications Technology/Doctorate Student of Theoretical Information Science Group, Japan Advanced Institute of Science and Technology

Overview

Five presenters spoke on the new research style "online collaboration" and introduced current activities, examples of each field abroad, and ideas to make it successful.

Featured Session 6

Ab-106

Future Society Created by Automated Driving Technology

Date: 10:30-12:00, November 15th (Sun), 2015

Venue: Miraikan Hall (7F), National Museum of Emerging Science and Innovation (Miraikan)

Program Offer: SIP Automated Driving System Promotion Committee

Presenters

Hiroyuki Watanabe, SIP Automated Driving Program Director
Masao Fukushima, Nissan Motor Co., Ltd.
Seigo Kuzumaki, Toyota Motor Corporation
Toshio Yokoyama, Honda R&D Co., Ltd.
Rumiko Iwasada, Automobile Journalist

Overview

Automated driving signifies vehicles that run without anyone driving. Recently, cars with this driving aid technology have started to run on public roads, however, a completely automated driving car is yet to be realized. The current state and the future of automated driving cars and society were discussed.



Featured Session 7

Cb-208

Our Thoughts on Global Warming and Energy Usage!

Date: 14:30-16:30, November 15th (Sun), 2015

Venue: Conference Room 1(11F), AIST Tokyo Waterfront Annex Building

Program Offer: Japan Science and Technology Agency (JST)

Presenters

Seita Emori, Head of the Center for Global Environmental Research(Climate Risk Assessment Section)
Akitsugu Koga, Head of the Department of Green Innovation, Japan Science and Technology Agency

Overview

Junior high and high school students gathered to learn about global warming caused by greenhouse gas emitted from human activities. The threats in the near future, reduction of greenhouse gas emission, and energy usage were discussed in the interactive workshop.



Featured Session 8

Ab-099

Humanities and Social Sciences can Change so Much with the Integration of Arts and Sciences!

Date: 14:30-16:00, November 15th (Sun), 2015

Venue: Conference Room 2(7F), National Museum of Emerging Science and Innovation (Miraikan)

Program Offer: Scientist Committee and Science and Society Committee of Science Council of Japan

Presenters

Kazuhisa Todayama, Graduate school of Information Science, Department of Systems and Social Informatics, Philosophy, Nagoya University
Takaya Arita, Graduate school of Information Science, Department of Complex Systems Science, Nagoya University
Tatsuya Kameda, Graduate school of Humanities and Sociology, Department of Social Psychology, Tokyo University

Overview

"Issues of mankind are not separated into science and arts." The session began with passionate words of the organizer, and two researchers introduced the latest scientific research on inquires of mankind often discussed in the fields of humanities and sociology.