

Annex 1

Attendees by countries and regions

Region	Country	SUM	Region	Country	SUM
Europe	Albania	2	Mid&South America	Honduras	1
	Armenia	2		Jamaica	1
	Austria	5		Mexico	31
	Belarus	2		Nicaragua	1
	Belgium	10		Panama	1
	Croatia	1		Peru	2
	Cyprus	2		Uruguay	1
	Denmark	2		Venezuela	1
	Estonia	3	Asia & Pacific	Australia	17
	European Union	1		Bangladesh	4
	Finland	6		Brunei Darussalam	3
	France	14		Cambodia	2
	Georgia	1		China	27
	Germany	15		Hong Kong	6
	Greece	2		India	11
	Italy	8		Indonesia	14
	Latvia	1		Japan	245
	Macedonia	2		Macau	8
	Malta	2		Malaysia	14
	Netherlands	6		Mongolia	1
	Norway	2		Myanmar	1
	Poland	5		New Zealand	5
	Portugal	4		Papua New Guinea	1
	Russia	1		Philippines	15
	Serbia	1		Republic of Korea	16
	Slovenia	4		Singapore	9
	Spain	7		Taiwan	17
	Sweden	5		Tajikistan	2
	Ukraine	1		Thailand	21
	United Kingdom	21		Timor-Leste	2
Mid-East	Afghanistan	2	Africa	Algeria	1
	Iran	2		Angola	1
	Israel	5		Botswana	3
	Jordan	3		Burkina Faso	1
	Kuwait	3		Ethiopia	2
	Palestine	3		Gabon	1
	Saudi Arabia	1		Guinea	2
	Syria	2		Kenya	2
	Turkey	4		Libya	2
North America	Canada	24		Morocco	1
	United States of America	58		Nigeria	1
Mid&South America	Argentina	5		South Africa	29
	Bolivia	2		Sudan	1
	Brazil	8		Togo	1
	Chile	12		Tunisia	3
	Colombia	3		Uganda	2
	Costa Rica	1		Egypt	5
	Dominican Republic	2		Zimbabwe	2
	Ecuador	3	Unknown		6
	El Salvador	1	Total		828

IPC member list

(**Working group members of scws2017)

Chair

Mamoru Mohri (Chief Executive Director, Miraikan, Japan) **

Previous Chair (SCWS2014)

Erik Jacquemyn (International consultant, Jacquemyn & associates, Belgium)

Next Chair (SCWS2020)

Silvia Singer Sochet (CEO and General Director, MIDE Museo Interactivo de Economía, México)

*Joined since May 2016

Committees

ASPAC (Asia Pacific Network of Science and Technology Centres)

Graham Durant (Director, Questacon, Australia) **

A. S. Manekar (Director General, NCSM, India) *joined since June 2016

Previous member: Ganga Lautela (Director General, NCSM, India) *till June 2016

Wei Shu (Member of the leading Party members' group, Executive Secretary, CAST, China)

Chee-kuen Yip (Ex-officio Executive Director/IPC Representative, ASPAC, Hong Kong) **

ASTC (Association of Science-Technology Centers)

Linda Conlon (Immediate Chair, ASTC/Chief Executive, International Centre for Life, United Kingdom)

Chevy Humphrey (The Hazel A. Hare President & CEO, Arizona Science Center, United States) **

Walter Staveloz (Director of International Relations, ASTC, United States) **, *served as "Ex-Officio by May 2017)

Previous member: Bud Rock (CEO & President, ASTC) * till May 2017

Ecsite (European network of science centres and museums)

Robert Firmhofer (Chief Executive Officer, Copernicus Science Centre, Poland)

Catherine Franche (Executive Director, Ecsite, Belgium) **

Rosalía Vargas (President, Pavilion of Knowledge – Ciência Viva, Portugal)

NAMES (North Africa and Middle East Science centers network)

Sawsan Dalaq (President, NAMES; Director, the Children's Museum Jordan, Jordan) *joined July 2016

Previous member: Mijbil Almutawa (President, NAMES, Kuwait) * till July 2016

RedPOP (Network for the Popularization of Science and Technology in Latin America and the Caribbean)

Alejandra León Castellá (Executive Director CIENTEC Foundation, Costa Rica) **

Jorge Padilla G. del C. (Immediate Past Chair, SOMEDICYT (the Mexican Society for Public Communication of Science and Technology), Mexico)

Previous member: Luisa Massarani, Director -Researcher and Science Communicator, RedPOP/Museum of Life-House of Oswaldo Cruz-Oswaldo Cruz Foundation, Brazil *till May 2016

SAASTEC (Southern African Association of Science and Technology Centers)

Mondli Mnguni (Chairperson, SAASTEC, South Africa)

Previous member: Michael Peter, Chief Operation Officer, Sci-Bono Discovery Centre, South Africa *till

Dec 2014

Previous member: Derek Fish, Director, Unizulu Science Centre, South Africa *between Dec 2014 to

Nov 2016

Ex-Officio

Tit Meng Lim (President, ASPAC/Chief Executive, Science Centre Singapore, Singapore)***Joined since July 2016**

Previous member: Walter Staveloz (Director of International Relations, ASTC, United States) ***moved to ASTC IPC committee member since May 2017**

INVITATION FOR BIDS TO HOST THE SCIENCE CENTRE WORLD SUMMIT 2020

1 Background

1.1 Transition of SCWC to SCWS

Before the networks of science centres started the Science Centre World Summit (SCWS) in 2014, 6 Science Centre World Congresses (SCWC) were held. The World Congresses were much more strategic in nature than the regional annual conferences and focused mainly on the science centre field itself. Congresses were held every three years on alternating continents/regions and were open to science centre and museum professionals from all over the world. In the first round of Congresses, the order for rotation among continents/regions was established as Europe, India, Asia Pacific, Latin America, North America, and Africa/Middle East. The history of the SCWC is as follows;

1SCWC	1996	Vantaa, Finland	4SCWC	2005	Rio de Janeiro, Brazil
2SCWC	1999	Calcutta, India	5SCWC	2008	Toronto, Ontario, Canada
3SCWC	2002	Canberra, Australia	6SCWC	2011	Cape Town, South Africa

After one rotation of the continents through the SCWCs, it was realised that exploring global challenges requires a new form of professional gathering that focuses much more on long term approaches and building alliances and partnerships outside the science centre field. Collaborative partnerships between science centres, industry, policy makers, scientists, global companies and global institutions worldwide needed to be formed in order to expand public opinion across cultural, political, economic and geographical boundaries that recognize science and technology is a key factor to addressing global issues.

Therefore, in 2010, the International Programme Committee (IPC), the highest decision making body of the SCWC/SCWS, agreed that beginning in 2014, SCWC would become even more strategic in nature and involve more speakers and delegates from OUTSIDE the science centre field. Based on this, the name became “Science Centre World Summit (SCWS).” The first Summit was held as follows;

1 st SCWS	17-19 March, 2014	Mechelen, Belgium
	Technopolis®, the Flemish Science Centre <i>Theme: “Public engagement for a better world”</i>	

Following the original rotation, the 2017 Summit will be hosted by Asia Pacific region (including India) at the National Museum of Emerging Science and Innovation (Miraikan), Tokyo, Japan..

2 nd SCWS	14-17 November, 2017	Tokyo, Japan
	National Museum of Emerging Science and Innovation (Miraikan) <i>Theme: “Connecting the World for a Sustainable Future”</i>	

The 3rd SCWS will be held in Latin America. The purpose of this document is to invite Latin America institutions to participate the bidding to become the host of the 3rd SCWS in 2020.

1.2 Definition of the Summit

The IPC for the SCWS2014 defined the significance and function of the future Summits as follows:

1.2.1 Significance

- Advance the science centre/museum field to a higher strategic level than before.
- The SCWS should address global issues and set strategic directions for the science centre/museum field. Therefore, the SCWS should aim to be more strategic and visionary than regional network conferences and offer global actions to achieve the goals.

1.2.2 Involvement of entities outside our field

- Involve and consult external agencies and associations (UN, governments, industries, research institutions, etc.) in the Summit planning.
- Have more than 30% of speakers from outside our field.
- Have more than 30% of participants attending from outside our field.

1.2.3 Shape a policy and issue a joint declaration

- Engage professionals from all settings such as the arts, sports, business, education, research, technology, government, and more and gain the cooperation of those stakeholders to solve global challenges and take action in some form.
- Review the Mechelen Declaration:
<http://scws2017.org/mechelen-declaration/index.html>
- The IPC for the SCWS2017 will follow the definition of the SCWS2014, prepare a report on the fulfilling of the Mechelen Declaration, and offer recommendations for further actions.

2 General Information for the bidding of the SCWS2020

2.1 Host Institution

- Bidding institutions should be a RedPOP member of good standing.
- Bidding institutions should have demonstrated an intensive engagement with other science centres internationally as well as with other networks.
- The SCWS2020 venue may be the institution itself, or a dedicated conference centre, provided that it meets space and other requirements.

2.2 Term

- The proposed dates of the SCWS2020 should take into account not only dates for host institution activities and local/national/regional network meetings, but also dates for other network meetings, special events, religious holidays, etc. around the world.

- The duration of the SCWS2020 should be 3-4 days, with the option of additional days for pre/post-Summit tours or activities.

2.3 Participants

- The number of delegates may be up to 500 including those within the science centre field and those external to our field.
- Likely delegates are to be CEO's and senior leaders of science centres, museums, science communication organisations, international agencies (for example UN organisations), international associations (for example in the field of journalism or education), etc. (in other words, decision makers)

2.4 Contents

- The programme should include an opening ceremony, at least 3 plenary sessions and a number of parallel sessions. Plenary and other sessions will be based on the theme and topics proposed by the host institution and finally determined by the IPC.
- The decision on the theme and content framework will be taken before the SCWS2017 so that it can be announced at the SCWS2017.

2.5 Language

- The working language and the official language of the SCWS2020 will be English.

3 Responsibilities

3.1 Responsibility of the IPC

3.1.1 Judgment and Decision Making

- Deciding the Summit theme, topics, programme and other content framework.
- Ensure that the Summit discussions are informed by relevant research data.
- Ensure that the programme reflects the Summit's concept and format by incorporating working groups, roundtable sessions, etc. to optimize engagement and to facilitate the development of an action plan.
- Ensure representation and input so that the Summit benefits developed and developing countries.

3.1.2 Advice

- Consult broadly with relevant external stakeholders to engage them in the Summit and to develop long term strategic relationships (an agreed framework of background information and questions for stakeholders will be developed for use by IPC members).
- Share learnings from previous Summits to execute the SCWS2020 in an efficient manner.

3.2 Responsibility of the Host Institution

3.2.1 Financial Responsibility

- Coordinate financial matters and manage all risks associated with the planning and hosting of the Summit, source local and national financial and in-kind support, and process registrations and participant fees.
- **Be aware that the institution is in charge of financial and other risks associated with organising the SCWS2020. Under no circumstances will the IPC be responsible for any financial issues of the SCWS2020.**

3.2.2 Term of Office

- The representative of the host institution is required to start attending all the IPC meetings after being selected as the SCWS2020 host in order to assure a smooth transition.
- The representative of the host institution is required to serve as the Chair of the IPC, provide staff for the secretariat from the close of SCWS2017 to SCWS2020, and organise the IPC meetings.
- The representative of the host institution is also required to continue to take a role as a member of the IPC after resigning the Chair until the SCWS2023.
- The host institution should take into account the requirement to allocate funds for sending the representative (as IPC member) and staff (as secretariat) to all the IPC meetings.

3.2.3 Logistic Obligation

- Maintenance of records and statistics associated with the planning and conduct of the Summit and compile a report evaluating the Summit outcomes.
- Organise the venue, facilities, delegate services, social programme, opening/closing ceremony, dinner reception, CEO forum, informal networking opportunities, marketplace, pre/post-Summit tours or activities, etc. during the Summit.
- Work with and seek the support of its local/regional network(s).

3.2.4 Content Development

- The IPC is responsible for the final approval of the content of the Summit, but it is the responsibility of the host to actively ensure that the programme is built, and the speakers are contacted and formally committed.
- Organise the meetings of the IPC and working groups of the IPC.

3.2.5 Communication

- Coordinate communications prior to, during, and after the Summit.
- Design promotional material, programme information, etc. and prepare the summit proceedings (if necessary) and distribute to participants in digital format.

4 Selection Criteria

The IPC invites bidding institutions to propose dates for the SCWS2020 and to provide information addressing the selection criteria written in this section.

Please use the following bidding form for the proposal.

4.1 Advantages of the Institution to host the SCWS2020 (7.1 of the bidding form)

- The IPC expects the host institution to understand the concept of the SCWS which was taken over from the beginning and to implement the concept into the organising plan.
- The institution is requested to describe its long term strategy/plan and noteworthy uniqueness based on its experience.

4.2 Content and Plans (7.2 of the bidding form)

- The IPC expects the host institution to take the SCWS concept into account to structure and plan the Summit with around 500 participants.
- Content, promotion and marketing plans to engage stakeholders outside of our field.

4.3 Venue and Facilities (7.3 of the bidding form)

- The host institution should provide a comfortable and welcoming environment to participants during the SCWS2020.
- Venue and facilities are required to meet at least minimum standards to hold the Summit and, furthermore utilize new technology and/or innovative ideas to make the Summit active and effective to support creative relationships building making among participants during the SCWS2020.
- The venue location should be capable of assuring public security and accessibility to the institution is also an important element.

4.4 Financial Plan (7.4 of the bidding form)

- The institution is in charge of financial and other risks associated for organising the SCWS2020. Under no circumstances will the IPC be responsible any financial issues of the SCWS2020. The IPC will endeavour to support international sponsoring efforts. Through the IPC, networks will be encouraged to assist, where possible, in identifying potential sponsors.
- The host institution is encouraged to seek financial support from local/national public authorities and private sponsors to support participants attending from developing countries.
- The SCWS2020 should not set out to generate a commercial profit. Any planned surplus should be used to subsidize delegates from developing countries and/or offset the carbon footprint.
- Financial plan proposed by host institution should meet above requirements, be reasonable and feasible.
- Please add information on the basic items written in the form as an example and indicate approximate calculation of revenue and expenditure.

4.5 Possible Support (7.5 of the bidding form)

- Please describe every conceivable support above and beyond financial, especially highlighting realistic ones with detail explanations.

Bidding Form for Hosting the SCWS2020

Please fill in the blanks to apply the SCWS2020.

5 The Bidding Institution

5.1	Name of the institution	
5.2	Country	
5.3	Address	
5.4	Name of the representative	
	Position	
	Email	
5.5	Name of the contact person	
	Position	
	Email	
	Telephone	
5.6	A letter of support from the institution's leadership/authority, if it is needed, for the institution's decision making	<input type="checkbox"/> Yes, and attached in _____ format with filename _____. <input type="checkbox"/> No
5.7	Is the institution a member of RedPOP?	<input type="checkbox"/> Yes, since _____. <input type="checkbox"/> No
5.8	Membership of other regional and global networks or involvement in international activities	
5.10	Is the institution operating and open to the public?	<input type="checkbox"/> Yes, opened in _____ and operating _ days a week. <input type="checkbox"/> No
5.11	Total size of the institution	_____ square metres
5.12	Size of Exhibition area	_____ square metres
5.13	Language of Exhibits	The majority of the exhibit panels are available in (languages) _____.
5.14	Annual number of visitors	Exhibition: _____ Theatre/Planetarium with separate admission: _____ In-house Activities: _____ Out-reach Activities: _____
5.15	Number of FTE (Full-time equivalent) staff	Number of Full-time staff: _____ Number of Part-time staff: _____ (or _____ in FTE)

6 Proposing Dates for the SCWS2020

6.1	Proposing dates	
6.2	Points to consider on the basis of local/national/regional network meetings, other network meetings, special events, religious holidays, etc.	
6.3	Other remarks if any	

7 Required Items

7.1 Advantages of the Institution to host the SCWS2020

- 7.1.1 What are the institution's long term strategy/plans and please mention if there is any relation with the SCWS concept? (Not more than 500 words)

- 7.1.2 What is the uniqueness of the institution as a science centre? Please give some examples (such as programmes, exhibits, partnerships, visitor services, building design, etc.) (Not more than 500 words)

- 7.1.3 How is the institution committing to the goals of the Mechelen Declaration established in the SCWS2014 and its follow up in SCWS2017?

- 7.1.4 Does the institution have experiences of organising international conferences recently?

☐ Yes ☐ No (If yes, please describe in detail.)

7.2 Contents and Plans

- 7.2.1 How is the institution suggesting to use the ICT (Information and Computer Technology such as record/stream/upload sessions) to extend the influence and benefit of the Summit? (Not more than 200 words)

- 7.2.2 How does the institution intend to promote/market the SCWS2020 to potential participants including from outside the field and maintain communication with them leading up to the SCWS2020? (Not more than 500 words)

- 7.2.3 How will the institution advertise the SCWS2020? For example, use opportunities such as session, booth, distributing leaflets and novelties, etc. to address regional network's conference delegates. (Not more than 300 words)

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7.3 Venue and Facilities

- 7.3.1 Is the SCWS2020 site located in the institution or other venue such as a conference centre?

☐ Yes ☐ No (If no, please describe in detail.)

Name of the venue	
Distance from the institution	
Access	

- 7.3.2 Please list up to 3 major accommodations close to the SCWS2020 meeting.

	Name of the accommodation	Distance from the SCWS site	Price ranges
1			
2			
3			

- 7.3.3 What is the closest main city to the venue location and what transportation is available from the city to the venue?

☐ Yes ☐ No (If yes, please describe in detail.)

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- 7.3.4 Are there museums and cultural attractions (for example other RedPOP member institutions) nearby? (Not more than 250 words)

☐ Yes ☐ No (If yes, please describe in detail.)

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- 7.3.5 Is access available for people with disabilities?

☐ Yes ☐ No (If yes, please describe in detail.)

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- 7.3.6 Does the SCWS2020 venue have enough facilities to manage 500 participants?

Facility needed		If no, provide alternatives.
1	At least 1 room for plenary sessions and opening/closing events	<input type="checkbox"/> Yes <input type="checkbox"/> No -----
2	More than 5 meeting rooms for parallel sessions	<input type="checkbox"/> Yes <input type="checkbox"/> No -----

3	Rooms or space with 30 poster boards for poster sessions	<input type="checkbox"/> Yes <input type="checkbox"/> No -----
4	Space for lunch and coffee break refreshments with a capacity of 500 delegates	<input type="checkbox"/> Yes <input type="checkbox"/> No -----
5	Rooms or space for networking and free discussion	<input type="checkbox"/> Yes <input type="checkbox"/> No -----
6	Registration desk with waiting area	<input type="checkbox"/> Yes <input type="checkbox"/> No -----
7	Rooms or space for cloak	<input type="checkbox"/> Yes <input type="checkbox"/> No -----
8	PC, projector, software, network, audio set etc. in each meeting room	<input type="checkbox"/> Yes <input type="checkbox"/> No -----
9	Conference technical office for uploading and managing of presentations	<input type="checkbox"/> Yes <input type="checkbox"/> No -----
10	On-site office with photocopying machine, printer, etc.	<input type="checkbox"/> Yes <input type="checkbox"/> No -----

7.4 Financial Plan

Please provide an estimate of expenditure for hosting the SCWS2020 by your institution, and an estimate of the revenue to meet the budget. As the tables below are examples, the bidder can add or delete items, or the replacement of the tables by totally original ones is also acceptable.

7.4.1 Expenditure (in US\$)

Items	Amount
Operation (e.g. office, setup, manpower, etc.)	
Facility (e.g. technical equipment, interpreting system, etc.)	
Food & beverage (e.g. lunch, dinner, coffee, etc.)	
Cost for invited speakers (e.g. travel & accommodation fee, rewards, etc.)	
Communication (e.g. promotion, marketing, print materials, etc.)	
SUM	

7.4.2 Revenue (in US\$)

Registration fee

Average fee	Assumed participants	Subtotal

Support money (e.g. Government, Company, etc.)

Subtotal

Commitment by the own institution

Subtotal

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SUM

Other remarks if any:

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7.5 Support / Endorsement

7.5.1 Does the institution have government support/endorsement for the bid (include letter(s) indicating such support)?

☐ Yes ☐ No (If yes, please describe in detail.)

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7.5.2 Does the institution have the support/endorsement of major science communication or science engagement organisation(s) or the public authorities themselves in your country (include letter(s) indicating such support)?

☐ Yes ☐ No (If yes, please describe in detail.)

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7.5.3 Does the institution have the professional staff and volunteer resources to support the effort required to host the SCWS2020?

☐ Yes ☐ No (If yes, please describe in detail.)

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Other remarks if any:

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8 Submission of Application

8.1 Closing Date

The bidding proposal must be submitted by email by the deadline. All the necessary and supporting documents should be written in English. Fully documented bids with supporting letters must be received by the SCWS2017 Chair **by 1 December 2015 24:00 (UTC)**. The International Programme Committee (IPC) may request additional information before making its final decision.

8.2 Sending Information

8.2.1 Address

Send the proposal to host the SCWS2020, together with supporting letters and any attachments, by email to:

Dr. Mamoru Mohri, Chair of the SCWS2017
Miraikan (National Museum of Emerging Science and Innovation)
By e-mail to: international@miraikan.jst.go.jp

8.2.2 Format

Send your bid proposal within 2 file formats below:

- (1) Microsoft Word
- (2) PDF

8.2.3 Schedule

Bids must be received by 1 December 2015.

The decision will be notified to the successful bid institution by the IPC Chair no later than 31 May 2016, so that the elected host can start their arrangement to attend the IPC meeting from then on.

8.3 Reference

Basic information including background and past summit is on the homepage of SCWS2017.

<http://scws2017.org/>

SCWS2020 Bidding Voting Rules

2016, 05, 02

1. Conflict of interest

If you have a conflict of interest with any candidate, please declare so in advance and decline to participate in the discussion related to SCWS2020 bidding and in the voting during the IPC meeting.

2. Voting right

Your vote may be based on your personal judgment or collective conclusion of the network to which you belong. Determination of choice is each network's decision.

3. Confidentiality Obligation

Your vote will be held in strict confidence by the secretariat. The chair is not a member of secretariat and the chair is not privy to your voting choice.

Please note that the winning candidate's identity must remain confidential until officially announced.

4. Skype participants

Those IPC members who will participate through Skype are strongly recommended to vote in advance, to the secretariat by e-mail by midnight, 17th May, Beijing time. They should vote for their top candidate, and list the candidates in order of their preference as well.

Skype participants can change their vote during the voting period in an IPC meeting by e-mailing the secretariat. If one wishes to change his/her vote, he/she should state aloud that he/she changed their vote without naming their choice.

If Skype participants cannot contact the secretariat during the IPC meeting due to unforeseen circumstances, including technical problems, the last list of preference received by the secretariat will be considered as valid.

5. Absentee

If the IPC member does not participate in the IPC meeting, he/she can participate in voting by "early voting" or "proxy vote". Otherwise, he/she can abstain from voting.

- a. By "early voting", he/she has to vote by e-mailing the list of the candidates in order of their preference to the secretariat, by midnight, 17th May, Beijing time. With "early voting", the candidate who is highest on this list and who is still in the voting round will be considered as the candidate voted for.
- b. By "proxy vote", he/she can leave the vote to another member who will physically participate in the IPC meeting by declaring the proxy option to the secretariat by e-mail, by midnight 17th May, Beijing time. The proxy relations should be strictly confidential within the secretariat and they are applied in all voting steps mentioned below.
- c. If he/she abstains from voting, he/she can declare the abstention by e-mailing the secretariat,

by midnight 17^h May, Beijing time. If the absentee does not declare “early voting”, “proxy vote” or abstention by the deadline, he/she is automatically recognized as an abstention.

6. Majority rule

If any candidate gets more than 50 percent of the total votes, that candidate is selected. If none of the candidates get a majority of the votes, a second ballot will be held between the top two candidates with the most votes respectively.

[In the first ballot]

- a. If all of three candidates get the same number of votes, a short IPC discussion will be held followed by a revote. Then, top two candidates will move to the second ballot. If three candidates get same number of votes again, the candidate who obtains the chair's votes automatically moves to the second ballot.
- b. If two candidates tie for 2nd place with the same number of votes on the first ballot, those two candidates will be voted on again and the candidate with the most votes will move to the second ballot. If two candidates get same number of votes again, the candidate who obtains the chair's votes automatically moves to the second ballot.

If any situation happens exceed above scenario, a short IPC discussion will be held followed by a revote. If this revote still does not solve the situation, the vote of chair will be highly respected.

7. Results

The number of votes obtained in each voting round is announced within the IPC meeting immediately after the voting and is held in confidence by every IPC member and by the secretariat.

The chair will announce the result (i.e. the choice of the SCWS 2020 host made by the IPC) to the winner and to the unsuccessful candidates by an e-mail and letter. They will receive only the final result and will not be informed of the rankings or reasons.

Following the e-mail and letters, the selected candidate will be featured on the SCWS2017 website within a few days after the decision. Until this official announcement, the result should be held confidential by all IPC members.

Secretariat e-mail address: international@miraikan.jst.go.jp

Science Centre World Summit 2020 Comparison of Site Proposals

Science Centre World Summit 2020 Comparison of Site Proposals

		Candidate1	Candidate2	Candidate3
		Name: Country: Representative:	Name: Country: Representative:	Name: Country: Representative:
Host Science Centre Characteristics				
1	Open & Operating to the public Support of Institution Leadership Member in good standing RedPOP			
2	Engagement with other science centres and leadership			
Science Centre Data/Statistics				
3	-Total size			
4	-Size Exhibit Area			
5	-Language of Exhibits			
6	-Annual Visitors Museum -Education/programs -Outreach/off-site			
7	-Number of FTE's/PT <i>FTE = full time equivalent</i> <i>PT=part time</i>			
8	Exhibits and programs models for the field			
9	Awards/recognition: national and international			

10	Does the host museum have the professional staff and volunteer resources to support the effort required to host the congress?			
Proposed Dates for SCWS 2020				
11	Dates Proposed			
12	Considerations of other networks, meetings, events holidays			
13	What theme did the institution suggest if provided – if provided?			
14	How does the suggested theme fit with the institution and the goals of the SCWS 2020?	-		
Advantages of the Institution to Host SCWS 2020				
15	What are the institution's long term strategy/future plans and how might these affect the summit and relate to the SCWS concept?			
16	Uniqueness of the institution as a science centre			
17	How is the institution committing to the goals of the Mechelen Declaration (MD)			

18	Does the institution have experiences of organising international conferences? City?			
Contents and Plans to Engage Participation				
19	What is the centre's/museum's plan and capability to use ICT and communications technologies to extend the influence and benefit to or provide a means of "participation" by others in the world?			
20	How does the institution intend to promote/market the Summit to potential participants in and out of the field? What is the communication plan with interested and registered delegates?			
21	How does the centre/museum plan to create and administer a Summit website, online payment, etc.?			

22	How will the institution advertise the SCWS 2020?			
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Venue and Facilities				
23	What is the site or sites proposed for the Summit?			
	What is the relationship of additional sites to the Institution?			
24	Museums and cultural attractions nearby?			
25	What are the proposed Summit program/social events?			
26	What pre and post conference activities are proposed?			
27	Additional opportunities and/or resources are available for professional development?			
28	Is access available for people with disabilities			
29	Does the venue have enough facilities for 500 participants?			
	-plenary/opening/closing			
	-5 meeting room for sessions			
	-30 posters			
	-lunch and coffee break			
	-networking and discussion			
	-registration and waiting			
	-cloak room			
	-full audio/tech support in each room			
	-conf. technical support office			
	-on-site office for copy/print etc.			

Financial Plan/Support											
30	Expenditures				\$						
31	Revenue										
32	-Registration in USD	Type	Number	Subtotal	Type	Number	Subtotal	Type	Number	Subtotal	
33	-Support money										
34	-Institutional commitment – includes facilities, dedicated staff/staff support										
35	Can the host museum secure local funding to support the congress and participants attending from developing countries? What might be the use of any surplus?										
Support and Endorsement											
36	Does the institution have government support or endorsement for the bid?										

37	Endorsement and support of the major science communication and science engagement organization in your country Letters of support?			
The City and Participant Logistics				
38	Appeal of city			
39	City/country capable of assuring public security and internal tranquillity in order to avoid discouragement of delegates from all different regions of the world?			
40	How easy is it to get to the host city?			
41	Is the city served by multiple airlines and no more than one leg away from a major airport hub?			
42	Does the city offer meeting facilities (in the museum or elsewhere) to logistically accommodate the Summit?			
43	Are there hotels available in a variety of price ranges? Prices in USD			
44	Are the hotels close to the congress-meeting site?			

45	Is reasonable local transport available between the hotels and the meeting site?			
46	What are the likely costs to participants of travel and lodging? <i>(Estimates of cost provided by Reviewer)</i>			

Annex 6

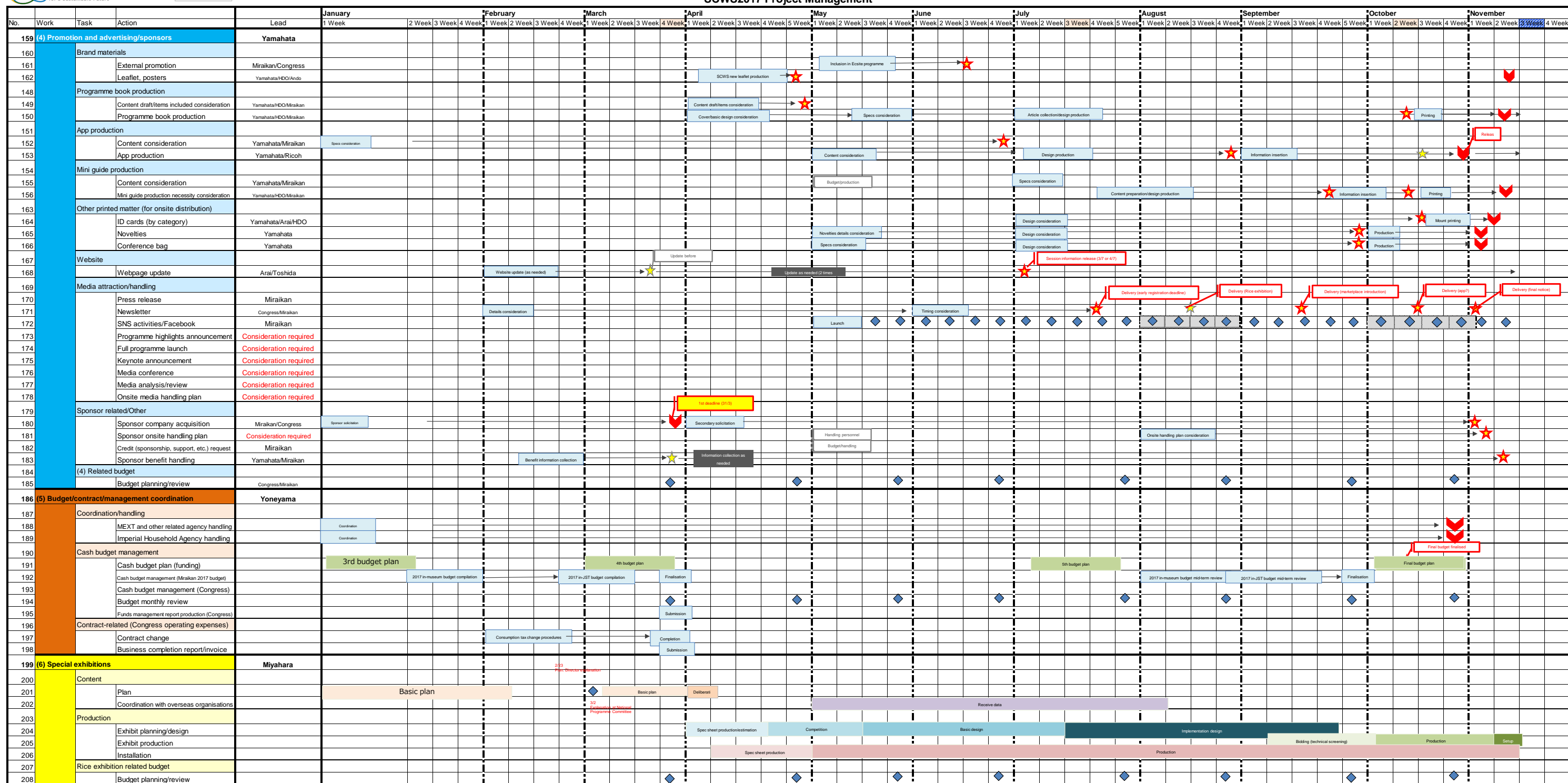
Honour committee list

Name	Organisation
Rob Adam	Director, The Square Kilometre Array (SKA)
Peter Agre	Nobel Laureate in Chemistry (2003) / Bloomberg Distinguished Professor/Director, Johns Hopkins Malaria Research Institute, Johns Hopkins Bloomberg School of Public Health
Irina Bokova	Director-General, United Nations Educational, Scientific and Cultural Organization (UNESCO)
Ana María Cetto	Director, Museum of the Light UNAM
Franklin Chang-Diaz	Astronaut/CEO, Ad Astra Rocket Company
Cheng Donghong	Vice President, China Association for Science and Technology (CAST)/President, Chinese Association of Natural Science Museums (CANSM)
Anusuya Chinsamy-Turan	Palaeobiologist, University of Cape Town/TWAS 2013 winner of sub-Saharan Africa Prize for Public Understanding and Popularization of Science
E. William Colglazier	Editor-in-Chief of Science & Diplomacy and Senior Scholar in the Center for Science Diplomacy, American Association for Advancement of Science (AAAS)
Farouk El-Baz	Director, Center for Remote Sensing, Boston University
Fabiola Gianotti	Director- General, CERN
HRH Princess Sumaya bint El Hassan	President, The Royal Scientific Society, Jordan
Mae Jemison	Founder, The Jemison Group, Inc. /Astronaut/Physician/Engineer
Alan I. Leshner	CEO Emeritus, American Association for the Advancement of Science (AAAS)
Low Teck Seng	CEO, National Research Foundation, Prime Minister's Office of Singapore
Barry Marshall	Nobel Laureate in Physiology or Medicine (2005)/The University of Western Australia
Gordon McBean	President, International Council for Science
Phil Mjwara	Director General, the Department of Science and Technology – DST
Mazlan Othman	Council Member, Academy of Sciences Malaysia/Formal Head, United Nations Office for Outer Space Affairs (UNOOSA) from 1999-2002 2007-2013/Founding Director General for the National and Space Agency of Malaysia
Sir Roger Penrose O.M. F.R.S	Emeritus Rouse Ball Professor, Mathematics at the Mathematical Institute of the University of Oxford/ Emeritus Fellow, Wadham College
Eduardo Posada	President, Colombian Association for the Advancement of Science (ACAC)
María Teresa Ruiz	Director, Centre for Astrophysics and Associated Technologies (CATA), University of Chile
Brian Schmidt	Nobel Laureate in Physics (2011) / Vice-Chancellor, The Australian National University
Manju Sharma	Former Secretary Department of Biotechnology Govt. of India/Formal President, National Academy of Sciences India & President and Executive Director of Indian Institute of Advanced Research
Chi-ming Shun	President, Commission for Aeronautical Meteorology (CAeM) of World Meteorological Organization/Director, Hong Kong Observatory
Hayat Sindi	Founder and CEO, the Institute for Imagination and Ingenuity (i2 institute)
Vaughan C. Turekian	Science and Technology Adviser to the Secretary of State U.S. Department of State
Honour Committee from Japan	
Tadao Ando	Architect/Emeritus Professor, The University of Tokyo
Yuichiro Anzai	President, Japan Society for the Promotion of Science
Tamaki Imai	Chairman, NHK Symphony Orchestra, Tokyo
Kazuhiko Ishimura	Chairman, The Asahi Glass Foundation
Shuji Kanoh	Chairman and Representative Director Fuji Media Holdings Inc.
Tsuneo Kita	Chairman and group CEO, Nikkei Inc.
Zenji Miura	Corporate Executive Advisor, Ricoh Company, Ltd.

Issey Miyake	Designer, MIYAKE DESIGN STUDIO
Yoshiko Mori	Chairperson, Mori Art Museum
Takashi Onishi	Immediate Past President Science Council of Japan
Sadayuki Sakakibara	Chairman, Keidanren/Senior Advisor, Toray Industries, Inc.
Hideki Shirakawa	Nobel Laureate in Chemistry (2000)/Professor Emeritus, University of Tsukuba/Doctor of Engineering
Ms. Atsuko Toyama	President, The Toyota Foundation/Formar Minister, Education, Culture, Sports Science and Technology (2001-2003)
Shinya Yamanaka	Nobel Laureate in Physiology or Medicine (2012)/Director of Center for iPS Cell Research and Application (CiRA), Kyoto University
Hiroyuki Yoshikawa	Chairman, The Japan Prize Foundation/Special Counselor to the President, Japan Science and Technology Agency/Doctor of Engineering

[illegible]

				January							February				March				April				May				June					July					August					September					October				November			
No.	Work	Task	Action	Lead	1 Week	2 Week	3 Week	4 Week	1 Week	2 Week	3 Week	4 Week	1 Week	2 Week	3 Week	4 Week	1 Week	2 Week	3 Week	4 Week	5 Week	1 Week	2 Week	3 Week	4 Week	1 Week	2 Week	3 Week	4 Week	5 Week	1 Week	2 Week	3 Week	4 Week	5 Week	1 Week	2 Week	3 Week	4 Week	1 Week	2 Week	3 Week	4 Week											
1	Project management			Mohr/To																																																		
2		Committee/meeting																																																				
3		IPC																																																				
4		National Programme Committee																																																				
5		Management/operating meeting																																																				
6		IPC secretariat meeting																																																				
7		Leader meeting																																																				
8		Line meeting																																																				
9		Overseas networking/exhibiting																																																				
10		AAAS@Boston																																																				
11		ECSITE@Portugal																																																				
12		ASTC@California (reference)																																																				
13		RedPOP@Argentina (reference)																																																				
14	Evaluation/review																																																					
15		Budget review																																																				
16		Sponsor review																																																				
17		Speaker review																																																				
18		Participant review																																																				
19		Risk review																																																				
20		Evaluation index production																																																				
21	Report																																																					
22	(1) Programme composition, speaker/participant handling			Maeda																																																		
23		Opening/closing																																																				
24		Speaker	Maeda																																																			
25	Content	Maeda																																																				
26	Invited VIPs	Maeda/Okayama																																																				
27	Invitee letter production/delivery	Toshida																																																				
28	Keynote																																																					

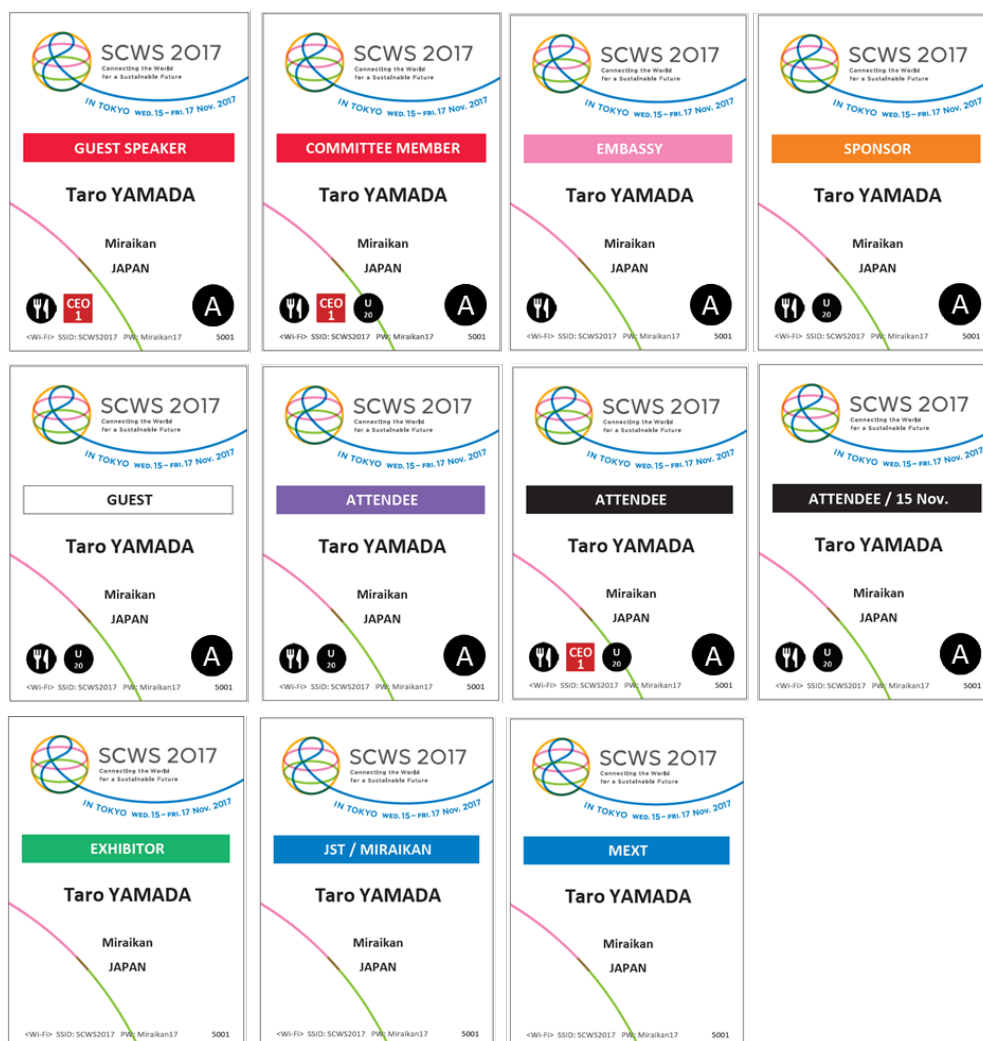


Annex 8

ID Badges

Main Categories:

- Attendee, Attendee/date with black bar
- Attendee, with purple bar (for accompanying person)
- Guest Speaker
- Programme Committee (for IPC, Local Advisory Committee, Honour Committee)
- Embassy (for guests from Embassies in Tokyo)
- Guest (for guests except Embassies)
- Sponsor
- Exhibitor
- Embassy
- MEXT* * Co-organiser
- JST/Miraikan



Others:

- Press
- Worker's Badge
- Staff
- Temporary
- Reserved table for Gala dinner



*Badges for staff involved in Setup/removal work only.



• ID sheet covered following information:

- ID Card including name, organization, nationality and category of participation
- Lunch Tickets
- Dietary restriction for Gala Dinner
- Certificate of Attendance
- Registration Receipt
- Research Area Tour ticket (only printed for registered CEO participants)

The collage shows various documents for Taro Yamada, a participant from Miraikan Japan. The documents are numbered 1 through 6:

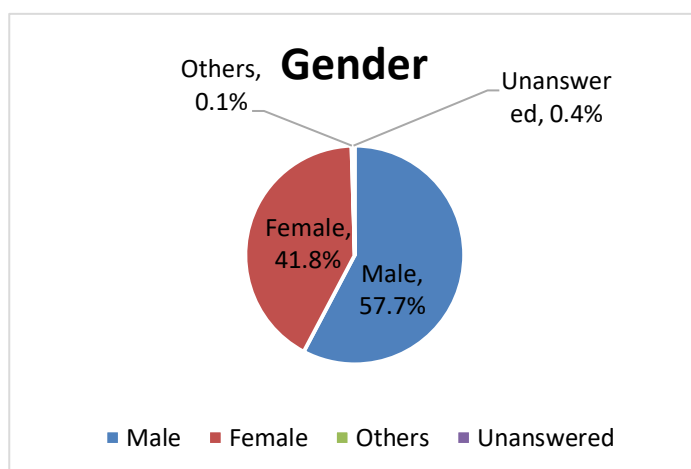
- Attendee Card:** Shows the participant's name (Taro YAMADA), organization (Miraikan JAPAN), and category (CEO Forum Group No.). It also includes a QR code and a table with dietary restrictions (1, 5001).
- Lunch Tickets:** Three tickets for November 15, 16, and 17, each with a time, place, and dietary restriction (1, 5001).
- Certificate of Attendance:** A document certifying attendance at the Science Centre World Summit 2017, November 15 to 17, 2015.
- Dietary Restrictions Card for Gala Dinner:** A card for the Gala Dinner on November 15, with a menu of A-1.
- Registration Receipt:** A receipt for the registration fee of JPY 75,000.- (tax included).
- Research Area Tour (14 Nov.):** A ticket for a tour to Miraikan's research area on November 14, from 16:20 to 17:00, meeting at the 3F Geo-Cosmos Stage.

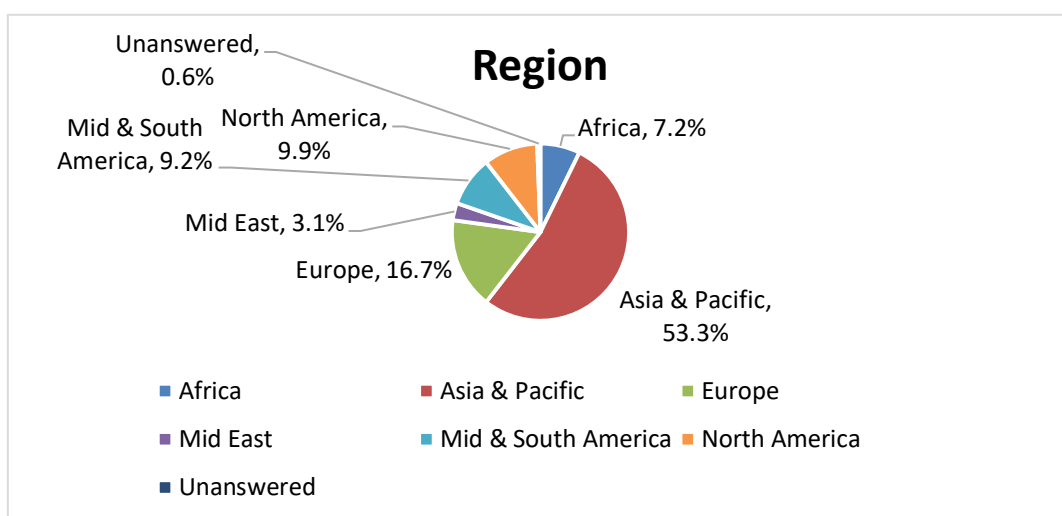
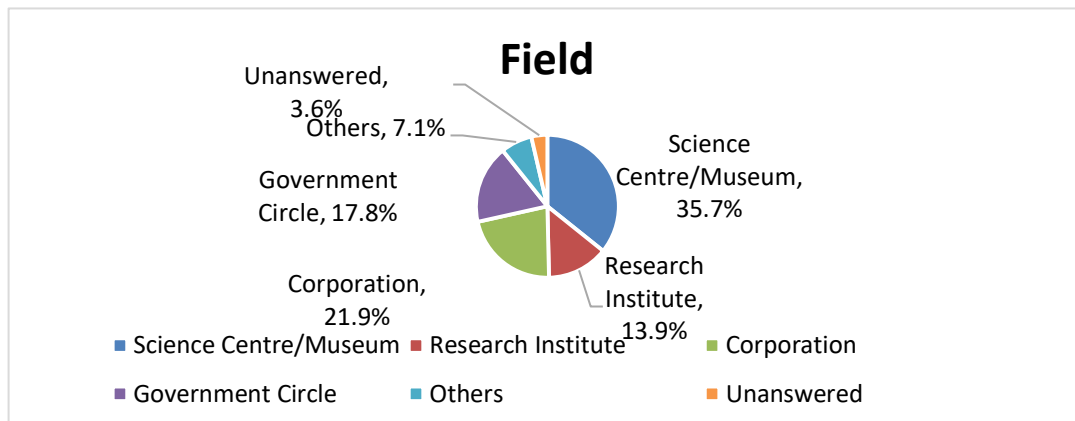
Additional labels on the left side of the collage include:

- CEO Forum Group No.
- Gala Dinner participant
- Under 20 飲み物提供確認

Attributed statistics

Attribute statistics		No.	
		No	%
Gender	Male	478	57.7%
	Female	346	41.8%
	Others	1	0.1%
	Unanswered	3	0.4%
Number of countries	Number	98	-
	Unanswered	6	-
Region	Africa	60	7.2%
	Asia & Pacific	441	53.3%
	Europe	138	16.7%
	Mid East	26	3.1%
	Mid & South America	76	9.2%
	North America	82	9.9%
	Unanswered	5	0.6%
Field	Science Centre/Museum	296	35.7%
	Research Institute	115	13.9%
	Corporation	181	21.9%
	Government Circle	147	17.8%
	Others	59	7.1%
	Unanswered	30	3.6%





Comparison by counties

Region	Country	SCWS2014		SCWS2017	
		No	%	No	%
Europe	Albania	0	0.0%	2	0.2%
	Armenia	0	0.0%	2	0.2%
	Austria	6	1.3%	5	0.6%
	Belarus	0	0.0%	2	0.2%
	Belgium	72	15.5%	10	1.2%
	Croatia	1	0.2%	1	0.1%
	Czech Republic	4	0.9%	0	0.0%
	Cyprus	0	0.0%	2	0.2%
	Denmark	4	0.9%	2	0.2%
	Estonia	1	0.2%	3	0.4%
	European Union	0	0.0%	1	0.1%
	Finland	6	1.3%	6	0.7%
	France	30	6.5%	14	1.7%
	Georgia	0	0.0%	1	0.1%

	Germany	23	5.0%	15	1.8%
	Greece	0	0.0%	2	0.2%
	Ireland	1	0.2%	0	0.0%
	Italy	1	0.2%	8	1.0%
	Kosovo/Yugoslavia	1	0.2%	0	0.0%
	Latvia	3	0.6%	1	0.1%
	Macedonia	0	0.0%	2	0.2%
	Malta	2	0.4%	2	0.2%
	Netherlands	27	5.8%	6	0.7%
	Norway	5	1.1%	2	0.2%
	Poland	6	1.3%	5	0.6%
	Portugal	6	1.3%	4	0.5%
	Russia	1	0.2%	1	0.1%
	Serbia	0	0.0%	1	0.1%
	Slovenia	3	0.6%	4	0.5%
	Spain	3	0.6%	7	0.9%
	Sweden	9	1.9%	5	0.6%
	Switzerland	5	1.1%	0	0.0%
	Ukraine	0	0.0%	1	0.1%
	United Kingdom	30	6.5%	21	2.6%
Mid East	Afghanistan	0	0.0%	2	0.2%
	Iran	0	0.0%	2	0.2%
	Israel	10	2.2%	5	0.6%
	Jordan	0	0.0%	3	0.4%
	Kuwait	1	0.2%	3	0.4%
	Palestine	3	0.6%	3	0.4%
	Saudi Arabia	2	0.4%	1	0.1%
	Syria	0	0.0%	2	0.2%
	Turkey	5	1.1%	4	0.5%
	United Arab Emirates	4	0.9%	0	0.0%
North America	Canada	10	2.2%	24	2.9%
	United States of America	48	10.3%	58	7.1%
Mid&South America	Argentina	3	0.6%	5	0.6%
	Bolivia	0	0.0%	2	0.2%
	Brazil	2	0.4%	8	1.0%
	Chile	0	0.0%	12	1.5%
	Colombia	1	0.2%	3	0.4%
	Costa Rica	1	0.2%	1	0.1%
	Dominican Republic	0	0.0%	2	0.2%
	Ecuador	0	0.0%	3	0.4%
	El Salvador	0	0.0%	1	0.1%
	Honduras	0	0.0%	1	0.1%
	Jamaica	0	0.0%	1	0.1%
	Mexico	11	2.4%	31	3.8%
	Nicaragua	0	0.0%	1	0.1%
	Panama	0	0.0%	1	0.1%
	Peru	0	0.0%	2	0.2%
	Uruguay	1	0.2%	1	0.1%
	Venezuela	0	0.0%	1	0.1%
Asia & Pacific	Australia	7	1.5%	17	2.1%
	Bangladesh	0	0.0%	4	0.5%
	Brunei Darussalam	0	0.0%	3	0.4%
	Cambodia	0	0.0%	2	0.2%
	China	11	2.4%	27	3.3%
	Hong Kong	1	0.2%	6	0.7%

	India	5	1.1%	11	1.3%
	Indonesia	0	0.0%	14	1.7%
	Japan	15	3.2%	245	29.8%
	Macau	5	1.1%	8	1.0%
	Malaysia	6	1.3%	14	1.7%
	Mongolia	0	0.0%	1	0.1%
	Myanmar	0	0.0%	1	0.1%
	New Zealand	2	0.4%	5	0.6%
	Papua New Guinea	0	0.0%	1	0.1%
	Philippines	0	0.0%	15	1.8%
	Republic of Korea	3	0.6%	16	1.9%
	Singapore	3	0.6%	9	1.1%
	Taiwan	0	0.0%	17	2.1%
	Sri Lanka	4	0.9%	0	0.0%
	Tajikistan	0	0.0%	2	0.2%
	Thailand	3	0.6%	21	2.6%
	Timor-Leste	0	0.0%	2	0.2%
Africa	Algeria	2	0.4%	1	0.1%
	Angola	0	0.0%	1	0.1%
	Botswana	0	0.0%	3	0.4%
	Burkina Faso	0	0.0%	1	0.1%
	Ethiopia	1	0.2%	2	0.2%
	Gabon	0	0.0%	1	0.1%
	Guinea	0	0.0%	2	0.2%
	Kenya	1	0.2%	2	0.2%
	Libya	0	0.0%	2	0.2%
	Morocco	0	0.0%	1	0.1%
	Namibia	2	0.4%	0	0.0%
	Nigeria	0	0.0%	1	0.1%
	South Africa	37	8.0%	29	3.5%
	Sudan	0	0.0%	1	0.1%
	Togo	0	0.0%	1	0.1%
	Tunisia	1	0.2%	3	0.4%
	Uganda	0	0.0%	2	0.2%
	Egypt	2	0.4%	5	0.6%
	Zmbia	1	0.2%	0	0.0%
	Zimbabwe	0	0.0%	2	0.2%
Unknown				6	
Total		464		828	

SCWS2017 Registered Participants List

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Ms.	Ting		Gao	China Science and Technology Museum	Exhibition and Education Center	Engineer	China	gtigl@163.om
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SCWS2017 Registered Participants List

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Ms.	Marzia		Mazzonetto	Consultant	Science Communication and Stakeholder Engagement	self-employed	Belgium	marzia.mazzonetto@gmail.com
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Mr.	Robert		Firmhofer	Copernicus Science Centre	Science Centre Management	CEO	Poland	robert.firmhofer@kopernik.org.pl
Mr.	Wiktor		Gajewski	Copernicus Science Centre	Science and Art Events Lab	Director	Poland	wiktor.gajewski@kopernik.org.pl
Mr.	Andres	Felipe	Roldan Giraldo	Corporacion Parque Explora	Direccion General	Director General	Colombia	andres.roldan@parqueexplora.org
Ms.	Mandy	YY	Thang	Creative Science Nanotech	Business Development	Business Development Manager	Malaysia	creativescience2u@gmail.com
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Comparison by counties

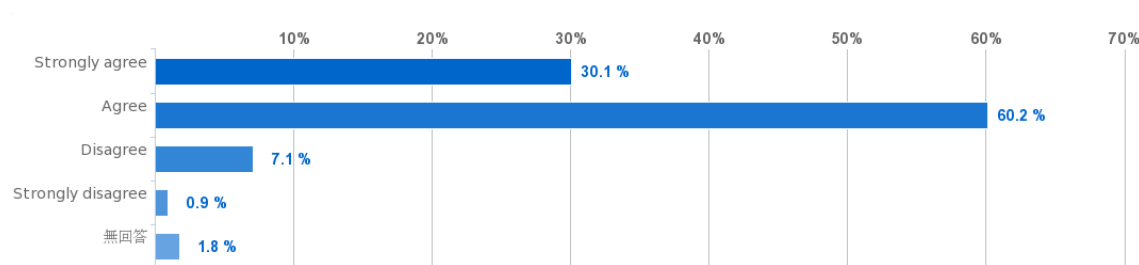
Region	Country	SCWS2014		SCWS2017	
		No	%	No	%
Europe	Albania	0	0.0%	2	0.2%
	Armenia	0	0.0%	2	0.2%
	Austria	6	1.3%	5	0.6%
	Belarus	0	0.0%	2	0.2%
	Belgium	72	15.5%	10	1.2%
	Croatia	1	0.2%	1	0.1%
	Czech Republic	4	0.9%	0	0.0%
	Cyprus	0	0.0%	2	0.2%
	Denmark	4	0.9%	2	0.2%
	Estonia	1	0.2%	3	0.4%
	European Union	0	0.0%	1	0.1%
	Finland	6	1.3%	6	0.7%
	France	30	6.5%	14	1.7%
	Georgia	0	0.0%	1	0.1%
	Germany	23	5.0%	15	1.8%
	Greece	0	0.0%	2	0.2%
	Ireland	1	0.2%	0	0.0%
	Italy	1	0.2%	8	1.0%
	Kosovo/Yugoslavia	1	0.2%	0	0.0%
	Latvia	3	0.6%	1	0.1%
	Macedonia	0	0.0%	2	0.2%
	Malta	2	0.4%	2	0.2%
	Netherlands	27	5.8%	6	0.7%
	Norway	5	1.1%	2	0.2%
	Poland	6	1.3%	5	0.6%
	Portugal	6	1.3%	4	0.5%
	Russia	1	0.2%	1	0.1%
	Serbia	0	0.0%	1	0.1%
	Slovenia	3	0.6%	4	0.5%
	Spain	3	0.6%	7	0.9%
	Sweden	9	1.9%	5	0.6%
	Switzerland	5	1.1%	0	0.0%
	Ukraine	0	0.0%	1	0.1%
	United Kingdom	30	6.5%	21	2.6%
Mid East	Afghanistan	0	0.0%	2	0.2%
	Iran	0	0.0%	2	0.2%
	Israel	10	2.2%	5	0.6%
	Jordan	0	0.0%	3	0.4%
	Kuwait	1	0.2%	3	0.4%
	Palestine	3	0.6%	3	0.4%
	Saudi Arabia	2	0.4%	1	0.1%
	Syria	0	0.0%	2	0.2%
	Turkey	5	1.1%	4	0.5%
	United Arab Emirates	4	0.9%	0	0.0%
North America	Canada	10	2.2%	24	2.9%
	United States of America	48	10.3%	58	7.1%
Mid&South America	Argentina	3	0.6%	5	0.6%
	Bolivia	0	0.0%	2	0.2%
	Brazil	2	0.4%	8	1.0%
	Chile	0	0.0%	12	1.5%
	Colombia	1	0.2%	3	0.4%
	Costa Rica	1	0.2%	1	0.1%
	Dominican Republic	0	0.0%	2	0.2%

	Ecuador	0	0.0%	3	0.4%
	El Salvador	0	0.0%	1	0.1%
	Honduras	0	0.0%	1	0.1%
	Jamaica	0	0.0%	1	0.1%
	Mexico	11	2.4%	31	3.8%
	Nicaragua	0	0.0%	1	0.1%
	Panama	0	0.0%	1	0.1%
	Peru	0	0.0%	2	0.2%
	Uruguay	1	0.2%	1	0.1%
	Venezuela	0	0.0%	1	0.1%
Asia & Pacific	Australia	7	1.5%	17	2.1%
	Bangladesh	0	0.0%	4	0.5%
	Brunei Darussalam	0	0.0%	3	0.4%
	Cambodia	0	0.0%	2	0.2%
	China	11	2.4%	27	3.3%
	Hong Kong	1	0.2%	6	0.7%
	India	5	1.1%	11	1.3%
	Indonesia	0	0.0%	14	1.7%
	Japan	15	3.2%	245	29.8%
	Macau	5	1.1%	8	1.0%
	Malaysia	6	1.3%	14	1.7%
	Mongolia	0	0.0%	1	0.1%
	Myanmar	0	0.0%	1	0.1%
	New Zealand	2	0.4%	5	0.6%
	Papua New Guinea	0	0.0%	1	0.1%
	Philippines	0	0.0%	15	1.8%
	Republic of Korea	3	0.6%	16	1.9%
	Singapore	3	0.6%	9	1.1%
	Taiwan	0	0.0%	17	2.1%
	Sri Lanka	4	0.9%	0	0.0%
	Tajikistan	0	0.0%	2	0.2%
	Thailand	3	0.6%	21	2.6%
	Timor-Leste	0	0.0%	2	0.2%
Africa	Algeria	2	0.4%	1	0.1%
	Angola	0	0.0%	1	0.1%
	Botswana	0	0.0%	3	0.4%
	Burkina Faso	0	0.0%	1	0.1%
	Ethiopia	1	0.2%	2	0.2%
	Gabon	0	0.0%	1	0.1%
	Guinea	0	0.0%	2	0.2%
	Kenya	1	0.2%	2	0.2%
	Libya	0	0.0%	2	0.2%
	Morocco	0	0.0%	1	0.1%
	Namibia	2	0.4%	0	0.0%
	Nigeria	0	0.0%	1	0.1%
	South Africa	37	8.0%	29	3.5%
	Sudan	0	0.0%	1	0.1%
	Togo	0	0.0%	1	0.1%
	Tunisia	1	0.2%	3	0.4%
	Uganda	0	0.0%	2	0.2%
	Egypt	2	0.4%	5	0.6%
	Zmbia	1	0.2%	0	0.0%
	Zimbabwe	0	0.0%	2	0.2%
Unknown				6	
Total		464		828	

SCWS2017 Questionnaire

Q1.

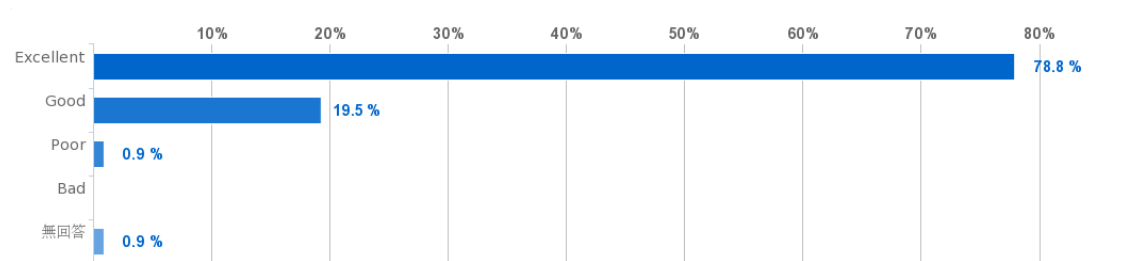
Do you think this summit contributed to the creation of the new role which the science centres/museums should play toward the realization of SDGs as typified by the Tokyo Protocol?



Q2.

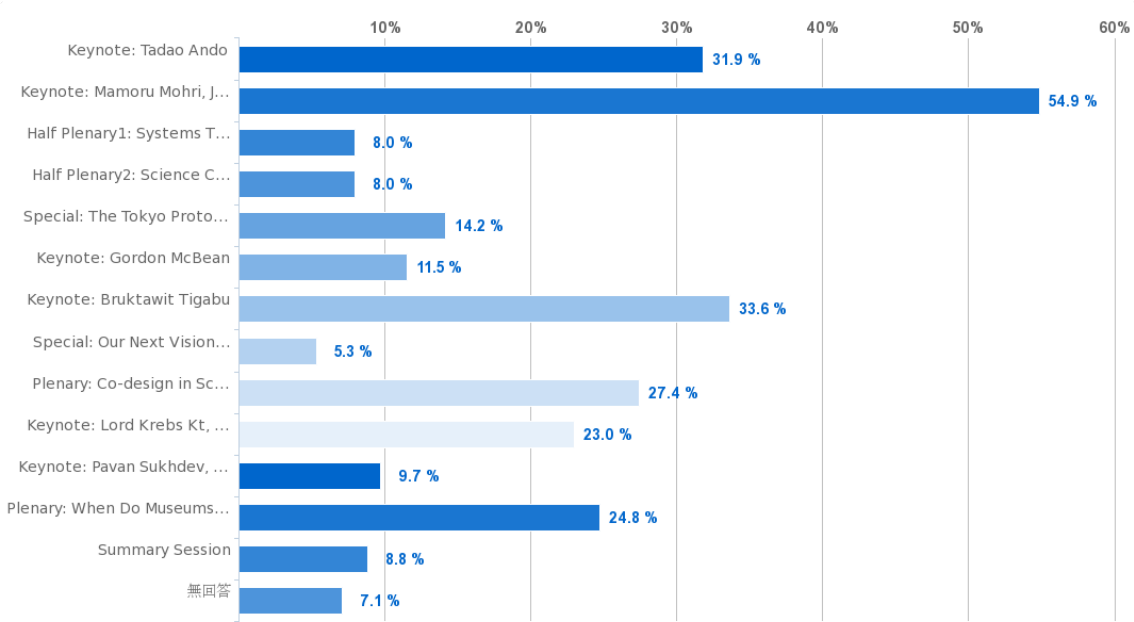
Were you satisfied with the whole management of this conference?

E.g. programme book, pocket guide, customer service, digital signage, Wi-Fi environment, etc.



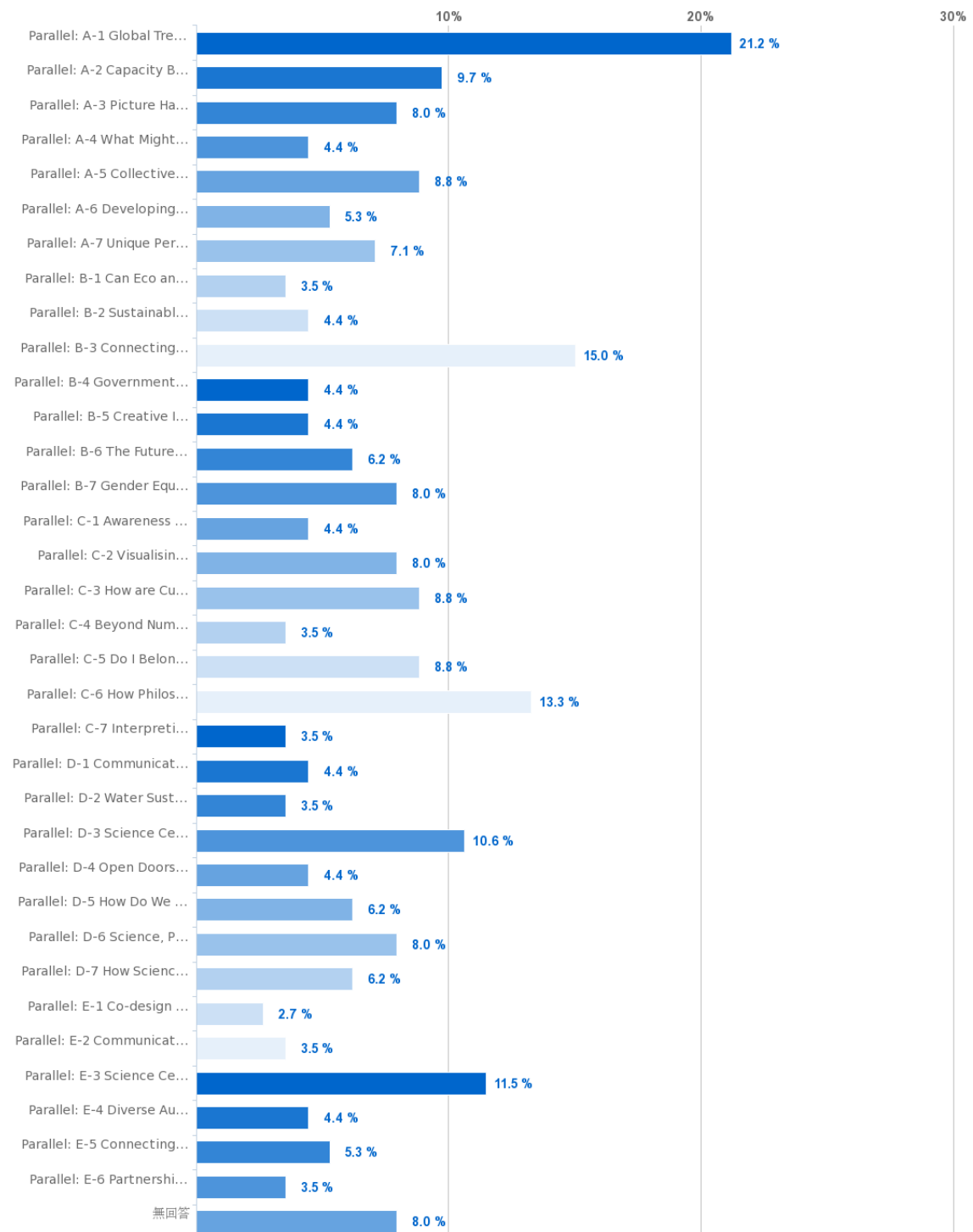
Q3.

Please list three best sessions you enjoyed. (Keynote/Plenary/Special)



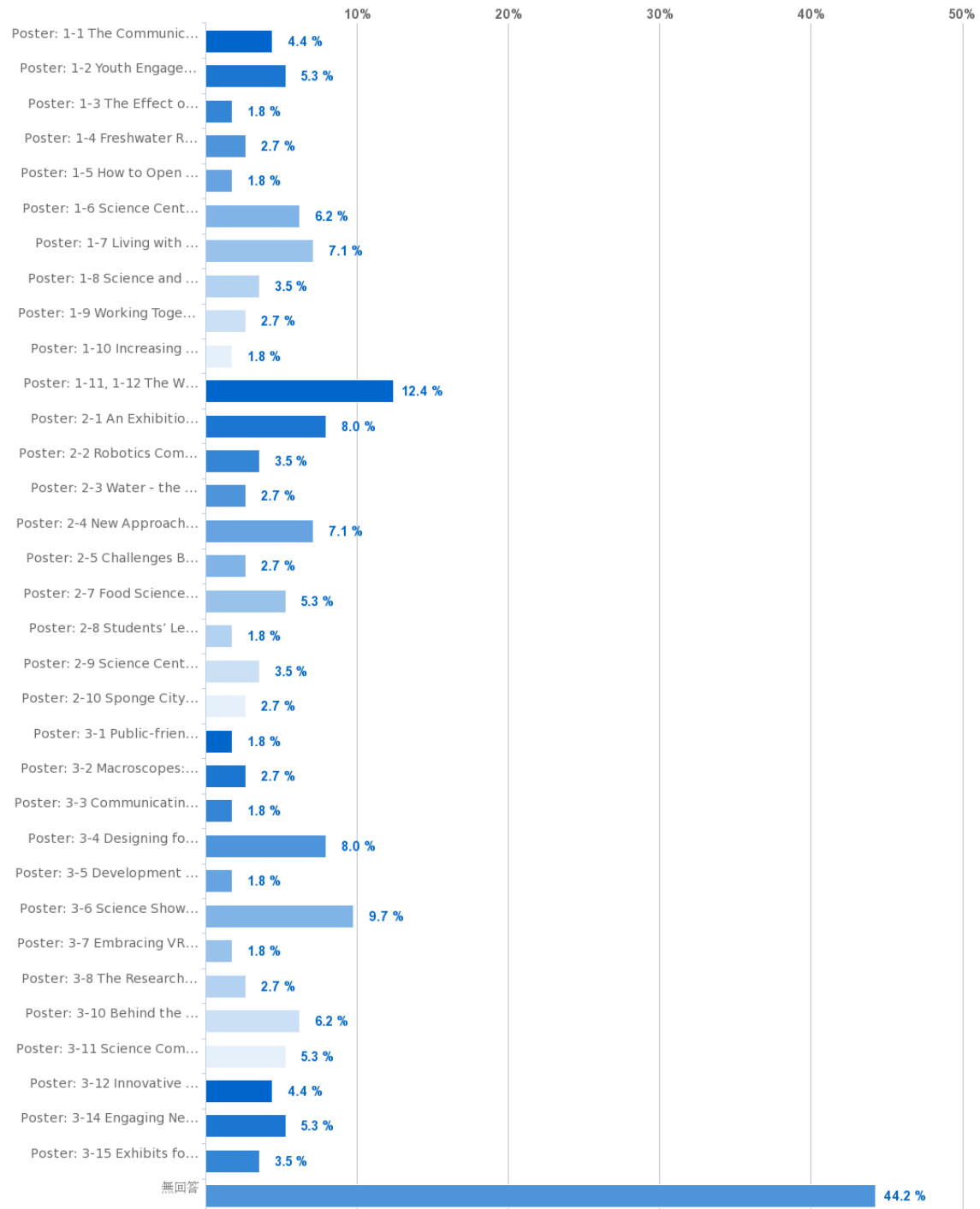
Q4.

Please list three best sessions you enjoyed. (Parallel)



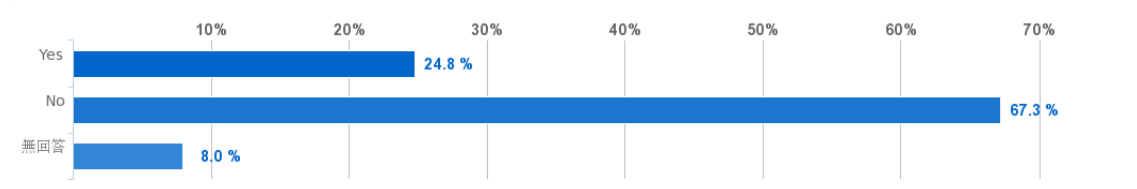
Q5.

Please list three best sessions you enjoyed. (Poster)



Q6.

Is there a topic that was missing?



Q7.

If yes to Q6, please define. (Maximum 200 Characters)

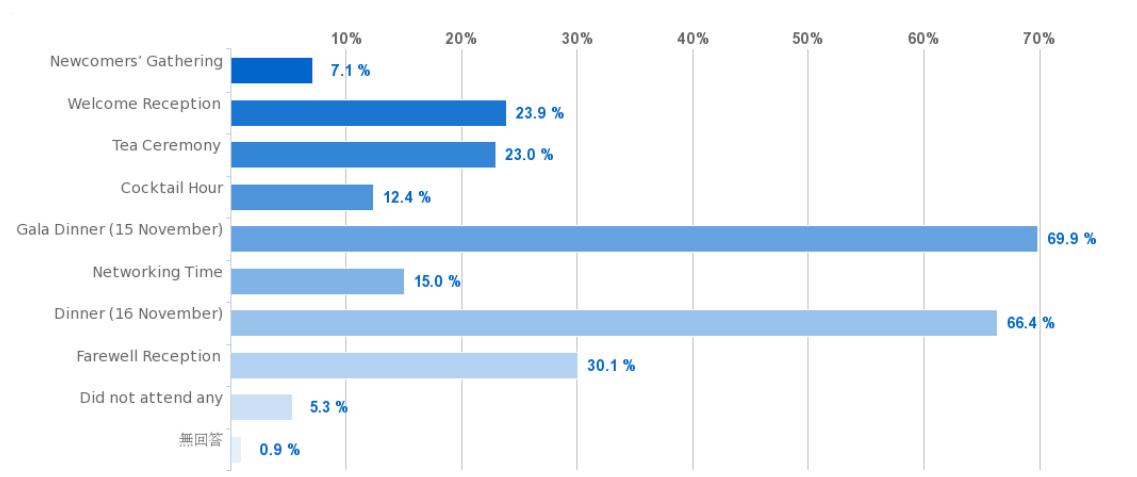
Comments:

activism, sustainability science, innovation
how do we fund activity. how do we make decision makers see all of what we do
How will the world be different because science centers/museums exist? How will science centers/museums empower our youth to use science in shaping a 5, better future?
More of an extension of the sustainability debate is the question of sufficiency. Inevitably humanity needs to address resource inequality and quantify what the global limit is per capita to access resources sustainably.
Geoheritage the Geoconservation
The Gala Dinner Nobel laureate speaker was excellent!
training youth to cope up with challenges of future galleries/exhibitions in science centres/museums.
What groups do not deliberately go to science centers and why?
Most of the discussion was actually focused on SC's ito exhibits and exhibitions. Would have liked sessions on shows as well
Science is being increasingly interdisciplinary and many centres are engaging with arts/humanities. How does science engage in new disciplines in new ways, how are science centres preparing our audiences for tthe future
The Future Earth Session
Thematic vs generalist science centers and museums. Differentiated roles.
Theoretical approaches to communication of science
How can big Science Centers help the small Science Centers?
Topic: 1) How science center effect community with an upgraded and a good way of life

2) How science center play a role to make a big changes in the community
in my opinion, it would have been important to address the issue of how to act with global concerns such as true-fake news and misinformation
Current trend for the development of new exhibition
Evaluation of projects and programs
More sharing of what science centres are doing, what isn't working and best practise examples.
I think the Tokyo protocol had already been drafted- more discussion on how we might apply this would have been useful
Sessions specifically for youth who work or are part of science centers
The role of Science and Technology and of Cientific Research in the cobstruction of the sustainable future
various ways of raising funds for our work
Science and Religion
AI, future society, collaboration with other ffeild
The role of "Science Communicators" in the society.
I think something around social media engagement and democratisation of science got eclipsed by some of the sessions' 'top level' themes.

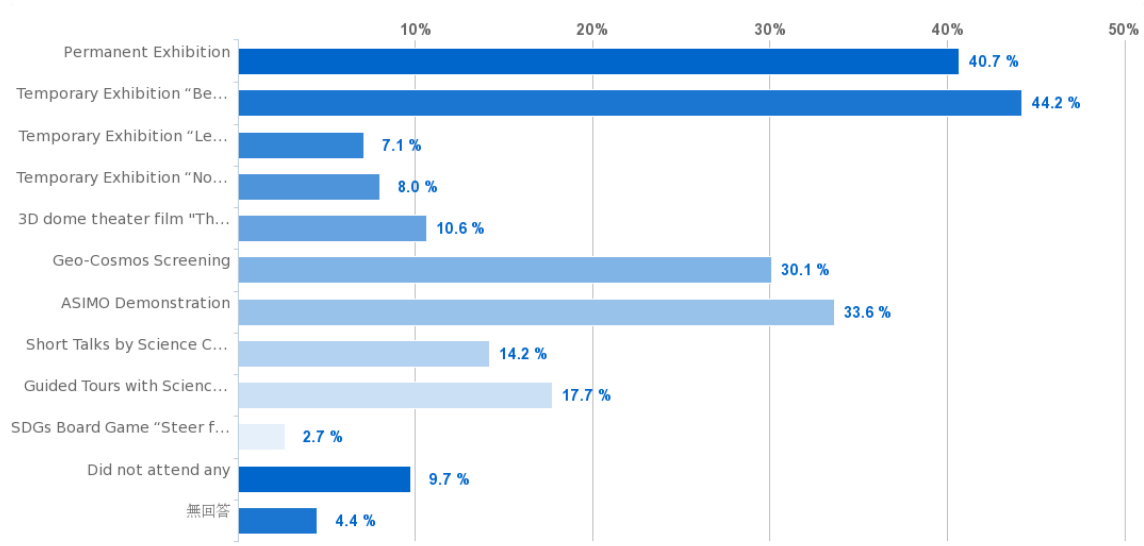
Q8.

Please list three of the best social events.



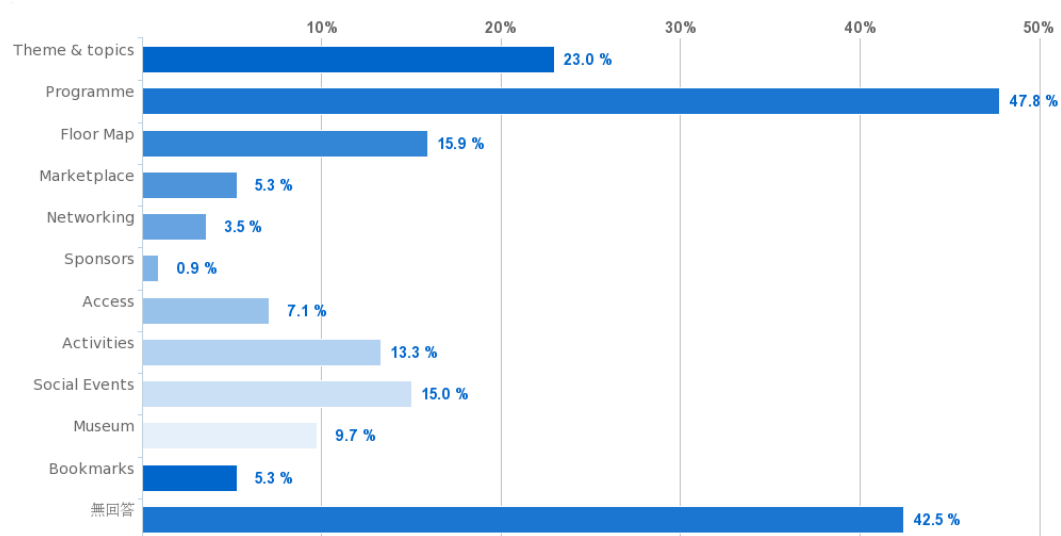
Q9.

Please list three of the best Miraikan activities.



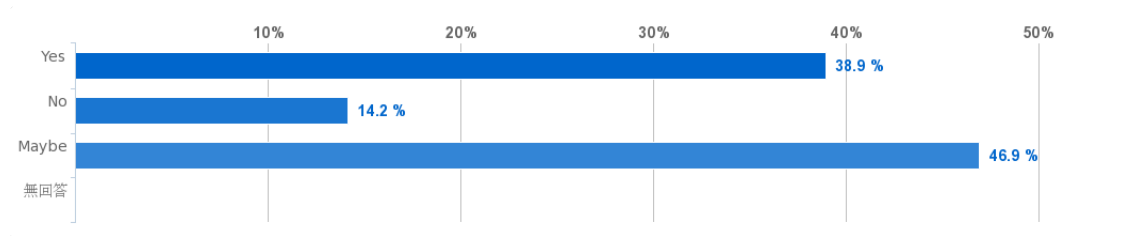
Q10.

(For those of you who have used the App) Which function in this App was useful?



Q11.

Do you plan to attend the SCWS2020 in Mexico City?



Q12.

We would appreciate any comments or suggestions. (Maximum 200 Characters)

Comments:

great arrangments but needed to put more concerning on sustainability essence in the meals.
I think the parallel sessions should have been spread out more (choose between 3-4, not 7) as it was difficult to choose. Also, imbalance in speakers representations (some Westerners only, some Asians only). also Q13 should have "other"
Change to retreat format. Start with big question: "How will world be different because Sci Ctr/Mus exist?" Structure the conf around this question. No more protocols More interactive sessions
Gala dinner fish was very dry. The speech was terrific.
I have attended conferences across many disciplines and countries, but the quality, organisation, programme and attention to detail achieved by SCWS 2017 was the best so far!
Less parallel sessions!
Very well-organized event, and diverse topics of parallel and plenary sessions. I really liked and appreciated integration of Japanese culture (Kabuki performance, Japanese cuisine).
We felt very welcome, and all our needs we met. We came home feeling very inspired.
Congratulations to the organizers for one of the best organized conference I have ever attended
Thanks to all hardworking staff in Miraikan. You have set a pretty high standard for the next summit.
(1) Don't use bottled water and paper cup (2) Should allow the audience to leave questions through the app. (3) The lunch style can be diversified and hot food should be more attractive

no plastic in the food!
The summit is good in all aspects and the best platform for science centre professionals to address future challenges with collaborations, especially through cooperation.
An overview of the culture of the host would be so welcome.
It was a wonderful summit - well organised and efficient but also full of warmth
The summit was very well organised and the work of all the volunteers was outstanding. Some variation in the food during lunch time would have been a good idea.
The big plenaries seemed a bit irrelevant to the SDG topic. Entertaining but not focused on the topic. The parallel sessions were much better. Needs less didactic plenary and more dialogue and sharing.
It was an outstanding event. Thank you very much for the hospitality, kindness and the absolutely perfect organisation.
It was a great experience.
Topics selected for discussion were appropriate but for a person it was not possible to attend all the sessions. The secretariat may send all the discussed topics to the participants mail.
I was disappointed that exhibitors were not provided with food or allowed to attend the sessions since we paid more than participants.
There were too many choices in the parallel sessions. Please have more with fewer choices so I can get to more that I want.
The conference was not interactive enough - it was very old school. There was not enough time for CEO's to interact.
Strive for more cultural and geographic diversity among speakers.
Thank you so much. We are really in so much gratitude for the effort Miraikan people and Dr. Mohri have put into the SCWS 2017. You have covered every small detail and the whole team have been so amazing. Thank you so much
it would be better if the SCWS is also completed with trainings that embrace how to develop education programs, that way we can learn each other to enrich our centers.
The technical support team was excellent and the punctuality of program execution was impressive. Very good food and warm hospitality much appreciated! Congratulations to Dr Mohri and secretariat and staff!
We appreciate of your concern about the need of Muslim facilities such as prayer room & Halal Food. The prayer room was comfortable and very useful for us. We are really appreciate that. The food was very nice and delicious. TQVM
Are it less of a typical conference and more small group discussion among CEO's. Less trying to be like UN and pretend to be international diplomats

Generally, I believe there should have been more inclusivity in the sessions; I found that most sessions were dominated by two or three points of view that were repeated throughout the summit. More perspectives are needed.

new voices in the pannels or pannels with new initiatives around the world

It would have been good to have seating in the foyer area for the first day where we waited between registration and the newcomers welcome. Long wait with no seats.

I hope more young presenters to participate each session

I am sending this response to the secretariat in a separate email. (Although it says above maximum 200 "words," it apparently will only accept 200 "Characters!")

1. I think that the SDGs should have been better introduced and defined early in the program (perhaps more clearly in the Wednesday Opening Keynote). Not all participants were familiar enough with them, their history, and the acronym SDGs. In that way, the sessions focusing on individual SDGs would have been more obvious and provided participants a more definite framework for choosing among sessions.

2. I found opportunities for group dialogue sadly missing from the sessions I attended, (although some of them were ostensibly set up to allow for and encourage dialogue).

3. I expected more of a "product" and/or "set of outcomes" to be generated from the sessions, and I never saw that happen. The conference felt as though it was planned with that mindset, but during the SCWS all I saw was the thinking of the planning committee (a sharing of the ideas in the previously signed proclamations) and not the addition of the thinking of the rest of the conference participants. I assumed this Summit was an opportunity to build on the ideas generated from the past Summits. I thought that participants' discussion from the SCWS 2017 would provide an augmentation to those past ideas, and thus move us forward.

4. The Wed-Friday group never saw or heard the results of the Tuesday CEO meeting (which we heard was very good). It would have been helpful if there had been a presentation on Wednesday or Thursday summarizing the outcomes of the Tuesday meeting. Such a session could have offered opportunities to respond to, comment upon, clarify, and add to these outcomes.

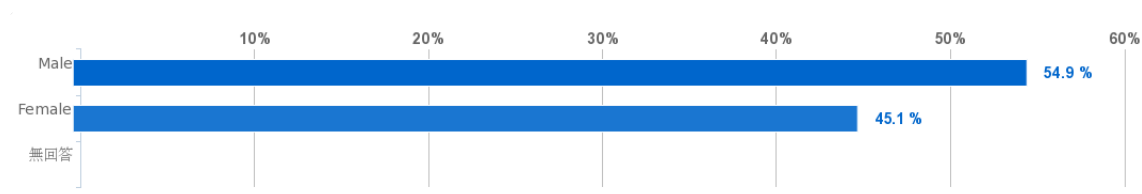
5. The video projections were very helpful to follow the large group sessions, especially as one could not see or hear the speakers unless one was sitting in the first few rows.

6. The navigation support provided by the conference staff made moving through the conference quite pleasurable (e.g., signs with arrows and location of event.)
7. Lunches were delicious, culturally interesting, and beautifully, graciously, and efficiently presented.
8. The dinner Thursday at the beautiful restaurant and garden in Tokyo downtown was excellent, (although more places to sit and eat would have been appreciated). The Kabuki performance was great, and I loved hearing the remarks (the inside story) about the family history of our performers. Thank you for setting this up!
9. Many of the sessions I attended were excellent, and stimulated my thinking and further discussions. I was impressed with many of the speakers, and inspired to hear of important and innovative work going on in Science Centres and other organizations around the world.
10. There were a number of good networking opportunities, and I enjoyed interacting with my colleagues and forming new professional relationships.
A number of presentations were very informative, it would be nice to have them posted on the website, we could benefit from the information.
Excellent Organisation, very friendly and supporting assistance, thank you very much!!
Love the strong science center spirit in the event
The app is useful in checking event date and time. However for those bookmarked items, they should be shown in a comprehensive (i.e. a single page) list in chronological order with pop-up reminder.
It was a wonderful conference. My only suggestion is that communication could have been stronger before the conference. Compared to the other conferences I've attended, I felt that a lot of the program/event information was delayed.
Again, we talk a lot about the youth being those who will have to deal with future issues, so I suggest we have a concurrent summit for youth who are connected to science centers
I suggest that there be workshops
Please use large letters for the program book
Although, I registered as an attendee, I was also an exhibitor. Some more attention should be paid to the attendee schedule as it relates to/overlaps with the social events and other scheduled attendee activities.
More opportunities for small group conversations

parallel session should be more nicely edited. there are many similar sessions, also to many sessions, that cause lack of discussion. and, Some session had confusing or useless because of speaker's skill,level, topic are unmatched.
Remarkably attentive staff. Really felt welcomed. Very professional. The food catering was also excellent throughout the conference.
It was a very fruitful summit. Thank you very much, organizers.
Very inspiring conference! And everything was well organised. Thank you Miraikan for hosting this wonderful event.
Overall very well organised event. Two things missing though: 1) Delegate list 2) Social media strategy (twitter) e.g. neither SCWS or Miraikan retweeted anything, making online conversation muted.
This was a wonderful event for me, and really turned my view of informal education from local to national and further to the whole globe, and the organizing of the event was elaborated, i enjoyed cultural sessions that inserted during tea breaks. we would like to join in some of the organizations or activities that could make the world a better place.

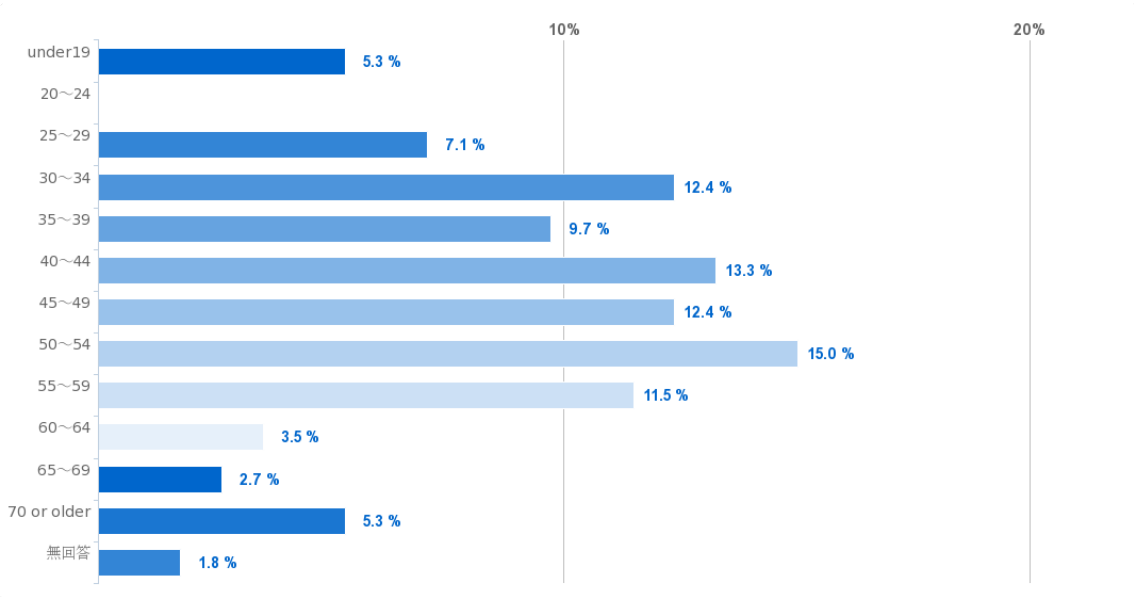
Q13.

Gender



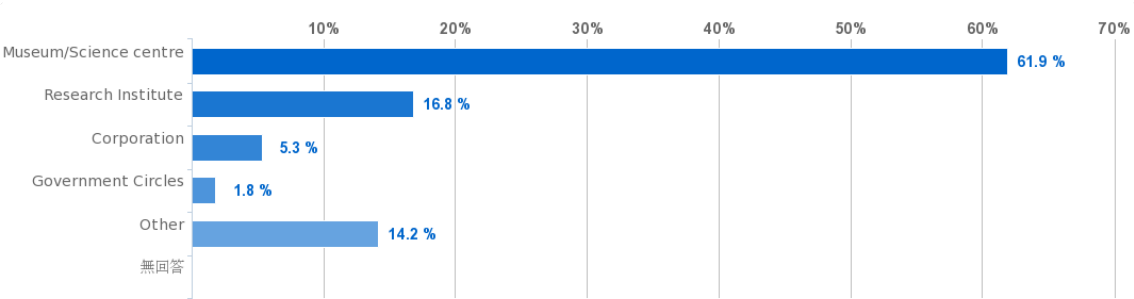
Q14.

Age



Q15.

Field



2016/6/30

**Science Centre World Summit 2017
Call for proposals
Guidelines**

The deadline for submissions is 9th October 2016 at 00:00(UTC).

1. About the Science Centre World Summit (SCWS)

The Science Centre World Summit (SCWS) assembles leaders and senior members of the world's science centres/museums, and representatives from all related stakeholders of society to address global issues. The leaders from science centres and museums around the world have met every three years since 1996 to discuss global issues that concern us all. Since their inception, these meetings have always been much more strategic in nature than regional conferences. Beginning in 2014, the International Programme Committee (IPC) recognised that impactful exploration of global challenges and issues required a new form of professional gathering, one that would include a wide variety of stakeholders from inside and outside our science centre community. The decision to transition from a Science Centre World Congress to a World Summit was more than a name change, it defined expectations about the program, the broad representation of participants, the strategic level of discussions, the focus on global concerns where science centres have vital roles, and the potential lasting impact of the gathering.

Unlike the regional conference, the aim of the Summit is to be the platform for not only the science centre community, but for all the stakeholders as well to strategically approach global issues. Governments, industry, international institutions, and research/education communities recognise the importance of public engagement in science/technology development. Approaching global issues requires an innovative gathering to create long-term strategies by building alliances/partnerships inclusive of all fields. SCWS is the platform initiated by science centres to seek new partnerships and new roles for the science centres towards addressing global issues.

Miraikan, the National Museum of Emerging Science and Innovation, in Tokyo, Japan will host SCWS 2017 with the theme: "Connecting the World for a Sustainable Future". This reflects the growing concerns on issues impacting our lives – global warming, health, aging populations, urban growth and stresses on our environment/resources, and cross cultural engagement to name a few. Participants will include professionals from science

centres/museums, scientists, educators, policy makers, industry leaders and more, and will exchange views towards solutions to society's challenges.

This is the call for the parallel and poster session proposals for SCWS 2017. Here we provide you with a detailed description of SCWS 2017 followed by what is required in your proposal. We deliver this call in order for you to successfully conceive and create a proposal to participate in this world-class summit. Submissions are encouraged to consider the global nature and strategic focus of the Summit.

2. SCWS 2017 Basic Information

- Date: 15th-17th November, 2017 (14th Nov for CEO Forum)
- Venue: National Museum of Emerging Science and Innovation (Miraikan)
- City: Tokyo, Japan
- Language: English (no simultaneous translation provided)
- Expected number of participants: 500 people from 50 countries/regions
- Finance: Applicant's involvement in the Summit must be completely self-financed including travel, accommodation and registration fee.

3. SCWS 2017: Theme and Topics

Theme: Connecting the World for a Sustainable Future

Topics: 15th Nov: Global Sustainability

16th Nov: Co-design for Transformation

17th Nov: Personal Engagement with Science

The first day will offer discussions that provide a broad scope with global perspectives. The second day will see organisational level discussions of the transformation needed to better promote and support a sustainable society. The last day focuses on how to best develop and involve the individual.

15th Nov: Global Sustainability

How can science centres actively contribute to global efforts for a sustainable future? How can people address, with local, regional, and global approaches, the challenges of sustainability such as global warming, water, resources, biodiversity, energy, and infectious diseases?

Science centres are, and aspire to be, hubs connecting all entities in society, encompassing ideas and perspectives to find creative and collective solutions to global challenges. Such hubs cultivate the engagement of a wide range of stakeholders in sustaining this planet of life and thereby, sustaining our species.

This day provides opportunities to discuss the contribution of science centres to “sustainability” in all its forms in terms of local, regional and global challenges, then share and co-create unique solutions, and contribute to achieve goals related to sustainability, especially United Nations Sustainable Development Goals(SDGs)through collaboration. (Refer to the UN website for further information: <https://sustainabledevelopment.un.org/sdgs>)

16th Nov: Co-design for Transformation

Society needs to transform itself to address global issues for sustainability and all institutions are expected to commit and be involved in that transformation process. Science centres, as a part of our society, should further encourage citizens, including the young generation, in the new collaborative transforming process. How can science centres communicate, co-create and share new, interactive approaches with stakeholders to enhance partnerships?

Co-design is creation through a shared vision that incorporates social learning and mutual understanding among all key stakeholders, and takes different perspectives, concerns and expectations into consideration. Science centres have a crucial role in triggering and harvesting the collective intelligence of stakeholders from sources such as research institutions, businesses and corporations, creative industries, the artistic fields, education, policy makers and citizens. The Summit provides opportunities to establish new partnerships from that wide variety of fields.

This day is resolved to invite and incorporate all sectors of human endeavor and expected to activate institutional level discussions. Discussions will focus on how to best collaborate with stakeholders, including the public, to achieve sustainability.

17th Nov: Personal Engagement with Science

Personalisation is a growing trend throughout the world. How do science centres, together with their partners, adapt and integrate this trend? How can they further enhance the connection between science and daily life, between science and personal perspectives? In many cultural and social activities throughout life, people transform themselves based on confrontation with innovative, challenging ways of thinking. Science centres need to provide new forms of engagement with science that shape and transform personal experiences, leading to changes in attitudes and behaviours. The last day will discuss how science centres can embrace or encourage the change of identity resulting from that process, how that serves their mission, and how science centres and their partners would benefit from new approaches towards personal transformation.

4. Programme structure of SCWS 2017

The descriptions of the content of the programme will be detailed.

	Day 0: Tue, Nov 14	Day 1: Wed, Nov 15	Day 2: Thu, Nov 16	Day 3: Fri, Nov 17	
		Global Sustainability	Co-design for Transformation	Personal Engagement with Science	
8:00	Registration	Registration	Registration	Registration	8:00
9:00		Opening Ceremony Photo Session	Plenary Session	Plenary Session	9:00
10:00		Marketplace Open	Coffee Break	Coffee Break	10:00
11:00	CEO Forum	Plenary Session	Panel Discussion	Panel Discussion	11:00
12:00					12:00
13:00	Lunch	Lunch	Lunch	Lunch	13:00
14:00		Panel Discussion	Parallel Sessions 1 2 3 4 5, 6, 7, 8-10	Parallel Sessions 1 2 3 4 5, 6, 7, 8-10	14:00
15:00	CEO Forum		Coffee Break/Poster Session	Coffee Break	15:00
16:00		Coffee Break	Semi- Plenary Session	Summary Session	16:00
17:00		Parallel Sessions 1 2 3 4 5, 6, 7, 8-10	Wrap-up Session	Closing Ceremony	17:00
18:00	Welcome Cocktail	Wrap-up Session			18:00
19:00		Gala Dinner	Dinner	Farewell Cocktail	19:00

- **CEO Forum:** This is a one-day event with attendance exclusively for current CEO's of science centres and museums. It provides a unique opportunity to discuss identified issues of shared concern in an open and frank environment.
- **Plenary Session:** One notable, international speaker is invited each day to make a presentation related to the day's topic and consider fundamental concerns for the issue.
- **Panel Discussion:** Panelists (maximum 5) are invited for each panel discussion. Very short presentations offered by each panelist followed by an interactive discussion.
****About "Panel Discussion", we are waiting for your ideas for the discussion topic and panelists. Please send your ideas to international@miraikan.jst.go.jp***
- **Parallel Session:** 6 to 8 sessions related to the topic are held in parallel. Each 75-minute session can utilize various formats. Details are in a later section.
- **Wrap-up Session:** This session is held at the end of each day for all participants. Participants share what transpired in each session. It also provides input for the next day, and for the last day summary session for the next SCWS.
- **Poster Session:** An individual or team can present an initiative or project in the posters area. About 20 posters will be accepted.

The Call for Proposals applies to Parallel Sessions and Poster Sessions.

5. Proposal Submission

You can submit your proposal from the online format.

If you submit the parallel session, please refer to **5-1. Parallel Session proposal**.

If you submit the poster session, please refer to **5-2. Poster Session proposal** for further information.

5-1. Parallel Session proposal

5-1-1. General information

- You can submit your proposal(s) in two ways:
 - by proposing a complete session linking to one of the three topics with identified presenters and a moderator.
 - by proposing an individual contribution linking to one of the three topics. The International Programme Committee (IPC) can include this contribution in complete sessions.
- An open web forum is ready to help you find session speakers.
If you are looking for speakers, please input your session idea and invite like-minded people.
- Based on how much the accepted proposals fit the general Summit concept, the IPC may suggest some changes or combination of some accepted sessions.

5-1-2. Required information: Complete session

Following information is required on the online format when you submit your proposal.

➤ **Speakers information**

Please fill in all of the following fields for the author and speakers. Please note that you must nominate an experienced convenor to be the Chair of the session and the author is the contact person with the secretariat of the Summit.

- Full name
- Institution/organisation/company
- Position
- Country/Region
- Gender
- E-mail

➤ **Session title**(no more than 10 words)

The title should be descriptive, interesting and/or controversial to attract an audience.

➤ **Relevant Topic**

Please choose the most relevant topic for your proposal (you can also choose “others” if you cannot find the topic which fits to your session).

➤ **Session summary** (no more than 50 words)

➤ **Session description** (no more than 200 words)

➤ **Session format**

Choose a session format that is appropriate for the session content.

- Traditional panel discussion: maximum 3-4 speakers (maximum 15 minutes each) followed by extended discussion with audience;
- Interactive round table(s): a flexible format with brief presentation and space for questions, answers and reactions;
- Pro and con debate on a controversial topic;
- Interview: proposers will provide an experienced interviewer and interviewee(s);
- Workshop: a flexible format, led by a speaker experienced in stimulating exchanges of views and using practical exercises;
- Other: you may propose another format that better suits your proposal, such as: Pecha Kucha (20 slides, 20 seconds per slide, followed by discussion), “unconference” sessions (facilitated, participant driven event with an informal approach)....

➤ **Significance** (no more than 50 words)

The reason why your session is significant should be stated including the aim, strategic nature, international perspective and interdisciplinary approach of your session.

➤ **Special Needs and Remarks**

Please specify if you have any requests for technical needs, or a special room set up or any other comments about your proposal.

5-1-3. Required information: Individual Contribution

Following information is required on the online format when you submit your proposal.

➤ **Speaker information**

Please fill in all of the following fields.

- Full name
- Institution/organisation/company
- Position
- Country/Region
- Gender
- E-mail

➤ **Presentation title**(no more than 10 words)

The title should be descriptive, interesting and/or controversial to attract an audience.

➤ **Relevant Topic**

Please choose the most relevant topic for your proposal (you can also choose “others” if you cannot find the topic which fits to your session).

➤ **Presentation summary** (no more than 50 words)

➤ **Presentation description** (no more than 200 words)

➤ **Significance** (no more than 50 words)

The reason why your session is significant should be stated including the aim, strategic nature, international perspective and interdisciplinary approach of your session.

➤ **Special Needs and Remarks**

Please specify if you have any requests for technical needs, or a special room set up or any other comments about your proposal.

5-2. Poster Session proposal

Following information is required on the online format when you submit your proposal.

➤ **Presenters information**

Please fill in all of the following fields for presenter(s).

- Full name
- Institution/organisation/company
- Position
- Country/Region
- Gender
- E-mail

➤ **Title**(no more than 10 words)

The title should be descriptive, interesting and/or controversial to attract an audience.

➤ **Relevant Topic**

Please choose the most relevant topic for your proposal (you can also choose “others” if you cannot find the topic which fits to your session).

➤ **Summary** (no more than 50 words)

➤ **Description** (no more than 200 words)

➤ **Significance** (no more than 50 words)

The reason why your session is significant should be stated including the aim, strategic nature, international perspective and interdisciplinary approach of your session.

➤ **Special Needs and Remarks**

Please note if you have any other comments about your proposal.

6. Selection criteria

➤ **Strategic importance:**

Proposals should be strategically linked to the SCWS concept, which is to contribute to build solid relationships with wide variety stakeholders to approach sustainability.

“Strategic” means that you need to consider how your session or individual presentation is of value, on a global scale.

➤ **Relevance to the theme and topics:**

The session should be highly related to the theme and ideally with one of the topics. The linkage to the United Nations Sustainable Development Goals (SDGs) is appreciated.

➤ **Originality:**

The session is supposed to share a challenging experience or idea.

➤ **Quality:**

The session is supposed to provide a new perspective or to inspire a new approach.

➤ **International perspective:**

The session with following items will be highly considered.

-An interesting topic that is related to common global concerns

-*Speakers come from different regions around the world.

➤ **Interdisciplinary approach:**

An open-minded perspective with idea and/or speakers beyond the science centre field is appreciated.

➤ ****Interactive and innovative session format:**

A session which is active and stimulates participants' discussion will be highly evaluated.

The criteria starting with “*” are applicable for Complete Session only.

The criteria starting with “**” are not applicable for Poster Session selection.

7. Selection process and schedule

All submitted proposals will be reviewed and assessed by IPC.

-9th Oct, 2016: Ending date for the call for proposals

Oct – Dec, 2016: IPC reviews and assesses the proposals

-End of Dec, 2016: Applicants receive the result

-1st Mar, 2017: Authors have adjusted their session following the IPC's decisions

-31st Mar, 2017: IPC finalizes the programme

-31st May, 2017: The author sends an abstract of the session for which he/she is responsible.

The abstract must include aim, expected impact and key points of his/her session.

Annex 14

List of Invited Speakers

Name	Organisation	Country	Role	Session
Aiko Doden	Senior Commentator on International Affairs, NHK (Japan, Broadcasting Corporation) / NHK World Special Affairs Commentator	Japan	Moderator	Keynote Session
				Summary Session
Akissa Bahri	Director, African Water Facility	Tunisia	Speaker	Half Plenary
Alfredo Tolmasquim	ICSU-World Data System, Scientific Committee	Brazil	Speaker	Half Plenary
Ana Maria Cetto	Honour Committee, Director, Museum of Light	Mexico	Speaker	Half Plenary
Bruktawit Tigabu	Chief Executive Officer, Whiz Kids Workshop P.L.C.	Ethiopia	Speaker	Keynote Speech
				Summary Session
Claire Gillissen-Duval	Director, EMEA Corporate Social Responsibility & Africa Code Week Global Lead, SAP	France	Speaker	Plenary Session
Dame Sally C Davies, FRS, FMedSci	Chief Medical Officer for England/Chief Medical Advisor to the UK Government	UK	Speaker	Half Plenary
Daniele Archibugi	Research Director, Italian National Research Council, Rome, and Birkbeck College, University of London	Italy	Speaker	Plenary Session
Genevieve Bell	Professor/Senior fellow Australian National University/ New Technology Group, INTEL	Australia	Moderator	CEO Forum
			Speaker	Plenary Session
Gordon McBean	President, The International Council for Science (ICSU)	Canada	Speaker	Keynote Speech
Hiroyuki Yoshikawa	Chairman, The Japan Prize Foundation /Special Counselor to the President, Japan Science and Technology Agency (JST)	Japan	Speaker	Summary Session
HRH Princess Sumaya bint El Hassan President	The Royal Scientific Society	Jordan	Speaker	Opening Ceremony
Ioannis Miaoulis	President and Director, Museum of Science, Boston	US	Speaker	Plenary Session
Jan Davis	Bastion Technologies, Inc.	US	Speaker	Keynote Session
Jim Richardson	Founder, MuseumNext	UK	Speaker	Plenary Session
Joan Leach	Director of National Centre for the Public Awareness of Science, Australian National University	Australia	Moderator	Half Plenary
Julia Tagüeña	Deputy Director General for Scientific Development, Mexican National Council of Science and Technology (CONACYT)	Mexico	Speaker	Special Session
			Moderator	Keynote Session
Kazuo Yano	Corporate Officer, Corporate Chief Scientist, Research & Development Group, Hitachi, Ltd.	Japan	Speaker	Plenary Session
Lord Krebs Kt, MA, DPhil, FRS, FMedSci, Hon DSc	Honorary Fellow and Former Principal, Jesus College, University of Oxford	UK	Speaker	Keynote Speech
Mamoru Mohri	Chairman, International Programme Committee of the SCWS2017/ Chief Executive Director, National Museum of Emerging Science and Innovation (Miraikan)/ Astronaut	Japan	Speaker	Keynote Session
				Special Session
				Summary Session
Michael Murawski	Director of Education & Public Programs, Portland Art Museum	US	Speaker	Plenary Session
Paulo Gadelha	Coordinator, the Fiocruz Strategy for Agenda 2030	Brazil	Speaker	Summary Session

Pavan Sukhdev	UNEP Goodwill Ambassador, The Founding Trustee of Green Indian States Trust (GIST), Founder & CEO of GIST Advisory, Associate Fellow of Davenport College, Yale University	India	Speaker	Keynote Session
Shahbaz Khan	Director, the UNESCO Regional Science Bureau for Asia and the Pacific	Australia	Speaker	Half Plenary
			Speaker	Special Session
Shinya Yamanaka	Director and Professor, Center for iPS Cell Research and Application, Kyoto University (CiRA)	Japan	Speaker	Gala Dinner
Suay Aksoy	President, ICOM (International council of museums)	Turkey	Speaker	Opening Ceremony
Tadao Ando	Architect, Professor Emeritus, The University of Tokyo	Japan	Speaker	Keynote Speech
Thomas E. Lovejoy	Professor, Environmental Science and Policy, George Mason University	US	Speaker	Keynote Session
Xuemei Bai	Fenner School of Environment and Society, Australian National University	Australia	Speaker	Half Plenary

Annex 15

SCWS2017 Session Details

14th: CEO Forum				
Time	Programme	Topic	Speaker	Organisation
8:00-8:45	Break Time	–	–	–
9:00-9:10	CEO Forum	Welcome and Review of Day (*Introduction of Dr. Mamoru Mohri)	Chevy Humphrey	The Hazel A. Hare President & CEO, Arizona Science Center
9:10-9:30		Opening remarks (*Introduction of Yule Zhang)	Mamoru Mohri	Chairman, International Programme Committee of the SCWS2017/ Chief Executive Director, National Museum of Emerging Science and Innovation(Miraikan) /Astronaut
9:30-9:35		Introduction of Dr. Genevieve Bell	Chevy Humphrey	The Hazel A. Hare President & CEO, Arizona Science Center
9:35-10:15		Presentation	Genevieve Bell	Professor, College of Engineering & Computer Science, Australian National University/Senior Fellow, New
10:15-10:30		Questions and Discussion	–	–
10:30-11:30	Break Out Groups	–	–	–
12:00-13:00	Lunch	–	–	–
13:10-13:40	CEO Forum	Presentation of new topic	Genevieve Bell	Professor, College of Engineering & Computer Science, Australian National University/Senior Fellow, New Technology Group, INTEL
13:40-14:40	Break Out Groups	–	–	–
14:40-15:20	CEO Forum	Group Presentations	Catherine Franche	Executive Director, Ecsite
			Silvia Singer	CEO and General Director, MIDE - Museo Interactivo de
			Robert Firmhofer	Chief Executive Officer, Copernicus Science Centre
			Linda Conlon	Immediate Chair, ASTC/Chief Executive, International Centre for Life
			Graham Durant	Director, Questacon
			Chee-kuen Yip	Ex-officio Executive Director/IPC Representative, ASPAC
			Tit Meng Lim	President, ASPAC/CEO, Science Centre Singapore, Singapore
15:20-15:45	CEO Forum	Warap up	Genevieve Bell	Professor, College of Engineering & Computer Science, Australian National University/Senior Fellow, New
15:45-16:00		Introduction of Miraikan	Mamoru Mohri	Chairman, International Programme Committee of the SCWS2017/ Chief Executive Director, National Museum of Emerging Science and Innovation(Miraikan) /Astronaut
17:00-18:30	Welcome Reception	–	–	–

15th: Global Sustainability				
Time	Programme	Topic	Speaker	Organisation
9:00-9:34	Opening Ceremony	–	Aiko Doden	Senior Commentator on International A airs, NHK (Japan, Broadcasting Corporation) / NHK World Special A airs Commentator
		–	Mamoru Mohri	Chairman, International Programme Committee of the SCWS2017/ Chief Executive Director, National Museum of Emerging Science and Innovation(Miraikan) /Astronaut
		–	Yoshimasa Hayashi	Minister, Ministry of Education, Culture, Sports, Science and Technology
		–	His Imperial Highness the Crown Prince	–
		–	Suay Aksoy	President, ICOM (International council of museums)
		–	HRH Princess Sumaya bint El	President, The Royal Scientific Society, Jordan
9:50-10:20	Keynote Speech	–	Tadao Ando	Architect, Professor Emeritus, The University of Tokyo
10:21-10:51	Keynote Session	–	Aiko Doden (*Moderator)	Senior Commentator on International A airs, NHK (Japan, Broadcasting Corporation) / NHK World Special A airs Commentator
		–	Mamoru Mohri	Chairman, International Programme Committee of the SCWS2017/ Chief Executive Director, National Museum of Emerging Science and Innovation(Miraikan) /Astronaut
		–	Jan Davis	Director of National Centre for the Public Awareness of Science, Australian National University
10:51-11:30	Coffee Break	–	–	–

Time	Programme	Topic	Speaker	Organisation
11:30-12:45	Parallel Session	A-1 Global Trends and the Potential Role of Science Centres	Lesley Lewis (*Moderator)	Independent Consultant
			Linda Conlon	Immediate Chair, ASTC/Chief Executive, International Centre for Life
			Stephanie Ratcliffe	CEO, The Wild Center
			Silvia Singer	CEO and General Director, MIDE - Museo Interactivo de Economía
			Graham Durant	Director, Questacon
			Robert Firmhofer	Chief Executive Officer, Copernicus Science Centre
			Hans Gubbels	Director, Museumplein Limburg
			Erik Jacquemyn	International consultant, Jacquemyn & associates
			Jeff Rudolph	President and CEO, California Science Center
			Chevy Humphrey	The Hazel A. Hare President & CEO, Arizona Science Center
			Maria Isabel Garcia	Curator, The Mind Museum
			Tengku Nasariah Ibrahim	CEO, Petrosains
			Tim Ritchie	President and CEO, The Tech
		A-2 Capacity Building to Face Crises - the Role of Science Centres and Museums	Anne Catherine Robert-Hauglustaine (*Moderator)	Professor, Paris 1 Panthéon-Sorbonne/Ex General Director, ICOM
			Bruno Maquart	President, Universcience
			Vincenzo Lipardi *CXL	Secretary General, Fondazione Idis-Città della Scienza
			Elizabeth Rasekoala *CXL	President, African Gong
			Herbert Munder	General Manager, Universum Bremen
		A-3 Picture Happiness on Earth: An International Collaboration for the Promotion of STEAM Education	Yumi Miyahara (*Moderator)	Section manager of Exhibition Development Division, Miraikan
			Ming Chao Lin	Assistant Research Fellow, Experimentation Division, National Science Museum
			Wachiraphan Charoenwet	Science Communicator, National Science Museum
			Darwin Cayetano	Exhibit Engineer, The Mind Museum
		A-4 What Might a Manifesto for 'Responsible Science Engagement' Look Like?	Kenneth Skeldon (*Moderator)	Head of Public Engagement, Wellcome Genome Campus, Cambridgeshire
			Shadrack Mkansi	Science Awareness Programme Manager, South African Agency for Science and Technology Advancement (SAASTA)
			Yoslan NUR	Division of Science Policy and Capacity-Building Science Policy and Partnerships (SPP) Programme Specialist, NATURAL SCIENCES SECTOR, UNESCO
		A-5 Collective Engagement: How Innovation and Partnerships are Reshaping Engagement	M J Schwartz (*Moderator)	Project Officer, UNIZULU Science Centre
			Julie Cleverdon	Director, Cape Town Science Centre
			Kazuki Yamamichi	JICA (former)
			Anna Gunnarsson	Project Manager, Navet
		A-6 Developing Science Centres in Africa for Equality of Opportunity and Global Sustainability	Susan Stocklmayer (*Moderator)	Former Director, National Centre for the Public Awareness of Science, Australian National University
			Ronen Mir	Director, Weizmann Institute of Science, Schwartz/Reisman Science Education Centers
			Leapotswe B. Bantsi	Botswana International University of Science and Technology
			Graham Walker	Academic Coordinator Science Circus, National Centre for the Public Awareness of Science, Australian National
			Kenneth Monjero	Founder, Children's Science Centre Kenya/ Kenya Agricultural and Livestock Research Organisation
		A-7 Unique Perspectives on Quality and Inclusive Science Education of All	Carol Valenta (*Moderator)	Former Chief Scientific Officer, Saint Louis Science Center
			Miha Kos	CEO, Ustanova Hiša Eksperimentov (the House of Experiments)
			Paloma Salgado	Exhibit Development Director, Interactive Museum of Economy, MIDE
			Puleng Tsie	Manager: Sci-Enza, University of Pretoria
			Charlie Trautmann	Director Emeritus, Sciencenter, Ithaca, New York
			John Falk	Director, Institute for Learning Innovation
			Kiyoshi Furusawa	Assistant Professor/Science Communicator, Hokkaido University CoSTEP
12:00-13:30	Lunch	—	—	—

Time	Programme	Topic	Speaker	Organisation
14:00-15:15	Parallel Session	B-1 Can Eco and Edutourism help Science Centers Become More Sustainable?	Roy Campbell (*Moderator)	Head of Exhibits and Digital Media, north Carolina Museum of Natural Sciences
			Fred Nucifora *Video	Director, ReefHQ Great Barrier Reef Aquarium, Great Barrier Reef Marine Park Authority
			Lee H Skolnick *Video	Founder and Design Principal, Lee H. Skolnick Architecture + Design Partnership
			Allison Ruiters *CXL	Director, Durban Natural Science Museum. Durban
			Masaru Takayama *Video	Founder and Chair, Asian Ecotourism Network (AEN)
		B-2 Sustainable Energy Futures: Science Centres/Museums Globally Approaching a Multifaceted Key Challenge	Ulrich Kernbach (*Moderator)	Head of Exhibitions and Collections, Deutsches Museum
			Tomokazu Fukui	Science Communicator, Miraikan
			Anne Dhanaraj	Senior Director of Education Programmes, Science Centre Singapore
			Tom Rockwell	Director of Exhibits and Media Studio, Exploratorium
			Sarah Kellberg	Lead Curator Special Exhibition energie.wenden, Deutsches Museum
		B-3 Connecting and Empowering Youth	Graham Durant (*Moderator)	Director, Questacon
			Carlin Hsueh	Project manager, ASTC
			Ayman Elsayed	Director, Planetarium Science Center, Bibliotheca
			Susan Payne	WINS program Manager, Education, The Academy Natural Sciences of Drexel University
		B-4 Government Policy and Science Centres	Linda Conlon (*Moderator)	Immediate Chair, ASTC/Chief Executive, International Centre for Life
			Rosalía Vargas	President, Ciencia Viva – Pavilion of Knowledge
			Luisa Massarani	Director -Researcher and Science Communicator, RedPOP/ Museum of Life-House of Oswaldo Cruz-Oswaldo Cruz
			Livhuwani Masevhe	Department of Science and Technology
		B-5 Creative Informatics for the Earth	Hitoshi Matsuoka (*Moderator)	Principal Investigator of Science Communication, Miraikan
			Daisuke Matsuoka	Scientist, Center for Earth Information Science and Technology (CEIST), Japan Agency for Marine-Earth Science and Technology (JAMSTEC)/PRESTO, Japan Science
			Synichi Yamamoto	Artist/Creative Director, omnibus japan
			Gopal Shah	Product Manager, Google Earth, Google
		B-6 The Future of Fulldome – An Open Dialogue	Chee-kuen Yip (*Moderator)	Ex-officio Executive Director/IPC Representative, ASPAC
			Shawn Laatsch	President, International Planetarium Society, Inc.
			Robert Firmhofer	Chief Executive Officer, Copernicus Science Centre
			Dimitrios Kontopoulos	Science Communicator, Exhibition Development Department, Miraikan
		B-7 Gender Equality and Reduced Inequalities	J-Walt Adamczyk	Master of the Metaverse, Spontaneous Fantasia
			Chevy Humphrey (*Moderator)	The Hazel A. Hare President & CEO, Arizona Science Center
			Beth Hawkins	Science Museum
			Kumar KG	Visvesvaraya Industrial and Technological Museum
			Sheena Laursen & Vesna Pajic	Sheena Laursen-Experimentarium, DenmarkVesna Pajic-Hisa Eksperimentov
			Gerardo Ibarra Aranda	Mexican Association of Museums and Science Technology Centers
			Saeed Saeed	CEO, TalentS and TalentS KCA
			Derek Fish	Director, Unizulu Science Center
			Rama Dhulipati *CXL	National Science Centre
15:30-16:45	Half Plenary Session	1 Systems Thinking for Sustainability	Walter Staveloz (*Moderator)	Director of International Relations, ASTC, United States
			Sally C Davies, FRS, FMedSci	Chief Medical Officer for England/Chief Medical Advisor to the UK Government, United Kingdom
			Akissa Bahri	Professor/Director, African Water Facility, Tunisia
			Alfredo Tolmasquim	Professor/Director, Observatory of Tomorrow (Museum of Tomorrow), Brazil
		2 Science Centres and Global Sustainability - What's the Plan?	Joan Leach (*Moderator)	Professor/ Director of National Centre for the Public Awareness of Science, Australian National University
			Ana María Cetto	Director, Museum of Light, The National Autonomous University of Mexico (UNAM), Mexico
			Xuemei Bai	Director, the UNESCO Regional Science Bureau for Asia and the Pacific, Australia
			Shahbaz Khan	Professor, Fenner School of Environment and Society, Australian National University, Australia
			Cristin Dorgelo	Incoming President and CEO, ASTC, United States

Time	Programme	Topic	Speaker	Organisation
16:45-17:30	Poster Session	1-1 The Communication of Environmental Protection for Science Centres	Hu Zhouying	Researcher, Hangzhou Low Carbon Science and Technology Museum, China
		1-2 Youth Engagement in Climate Change: Empowering a Generation of Leaders	Stephanie Ratcliffe	Director of Programs, The Wild Center, United States
		1-3 The Effect of Global Warming in African Countries	Daniel Thamsanqa Mphokela	Science Centre Manager, ArcelorMittal Science Centre, South Africa
		1-4 Freshwater Resources and Urban Sustainability - How We Participate	Song Ji	Research Associate, Wuhan Science and Technology Museum, China
		1-5 How to Open Archives of Science Museums to the Public	Chen Jie	Archivist, China Science and Technology Museum (CSTM), China
		1-6 Science Centres and Museums: Actors in Science Diplomacy	Johannes-Geert Hagmann	Officer for Museum Cooperation, Deutsches Museum, Germany
		1-7 Living with Mosquito: The Exhibition	Nattawut Chongamornkul	Science Communicator, National Science Museum, Thailand
		1-8 Science and Technology for a Sustainable Future of Peru	Nemesio Espinoza	Professor, Universidad Nacional Mayor de San Marcos, Peru
		1-9 Working Together for a Shared Vision	Tebogo Habedi	Manager, ArcelorMittal Science Centre, South Africa
		1-10 Increasing Public Awareness and Knowledge on Antimicrobial Resistance (AMR) in Japan	Manabu Hasegawa	Councilor, Coordination Office of Measures on Emerging Infectious Diseases, Cabinet Secretariat, Japan
		1-11 The World Biotech Tour: An International Cohort of Youth Science	Carlin Hsueh & World Biotech Tour Ambassadors	Program Manager, ASTC, United States/Portugal/Japan/Belgium/Australia/Thailand/Italy/C
		1-12 Africa Code Week: Empowering the Next Generation of African Leaders	Claire Gillissen-Duval *CXL	Director, EMEA Corporate Social Responsibility & Africa Code Week Global Lead, SAP, France
		Coffee Break	—	—
17:30-17:45	Photo Session	—	—	—
17:45-18:45	Special Session	The Tokyo Protocol: Our Global Plan for Local Action	Derek Fish (*Moderator)	Director, Unizulu Science Centre, South Africa
			Erik Jacquemyn (*Moderator)	International Consultant, Jacquemyn & associates, Belgium
			Mamoru Mohri	Chairman, International Programme Committee of the SCWS2017/ Chief Executive Director, National Museum of Emerging Science and Innovation (Mirai) / Astronaut, Japan
			Herbert Munder	President, Esite/General Manager, Universum Bremen, Germany
			Tit Meng Lim	President, ASPAC/CEO, Science Centre Singapore, Singapore
			Guy Labine	Chair, ASTC/CEO, Science north, Canada
			Sawsan Dalaq	President, NAMES/Director, Children's Museum Jordan
			Mondli Mnguni	President, SAASSTEC, South Africa
			Luisa Massarani	Director, RedPOP/Director, Museu da Vida, Brazil
18:45-19:30	Cocktail	—	—	—
19:45-21:45	Gala Dinner	—	Shinya Yamanaka	Director and Professor, Center for iPS Cell Research and Application, Kyoto University (CIRA)

16th: Co-design for Transformation				
Time	Programme	Topic	Speaker	Organisation
9:00-9:35	Keynote Speech	—	Gordon McBean	President, The International Council for Science (ICSU)
9:35-10:10	Keynote Speech	—	Bruktawit Tigabu	Co-founder, CEO and Creative Director, Management and Production, Whiz Kids Workshop
10:10-10:55	Poster Session	1-11 The World Biotech Tour: An International Cohort of Youth Science Advocates	Carlin Hsueh & World Biotech Tour Ambassadors	Program Manager, ASTC, United States /Portugal/Japan/Belgium/Australia/Thailand/Italy/Canada/Spain/Brazil/Finland/Poland/South Africa
		2-1 An Exhibition Connecting the Mind	Zan Li	Engineer, China Science and Technology Museum (CSTM), China
		2-2 Robotics Competition with a Twist	David Mavuso	Robotics Facilitator, ArcelorMittal Science Centre, South Africa
		2-3 Water - the Sustainable Future among People with Disabilities	Leticia Ma. del Socorro Chávez Martínez	Chief of Care to Vulnerable Groups, UNAM, DGDC. Universidad Nacional Autónoma de México, Dirección General De Divulgación de la Ciencia, Mexico
		2-4 New Approach of Collaboration with Industry	Chenchen Shen (Representative Presenter) Kao & Mirai Collaboration	Science Communicator, Mirai, China Kao Corporation, Mirai, Japan
		2-5 Challenges Brought to Science Centres by the Rise of Commercial Venues	Long Jinjing	Deputy Director of Resources Management Department, China Science and Technology Museum (CSTM), China
		2-6 A Collaboration for Reaching Out to Under-served Communities through Mobile Labs	Rufus Wesi *CXL	Programme Manager, Sasol Inzalo Foundation, South Africa
		2-7 Food Science Programme with Special Tasting at Local Science Museums	—	Local science museums (Tokyo, Osaka, Niigata), and Ajinomoto Co., Inc.
		2-8 Students' Learning Outcomes of the Gakugei-in (Curator) Qualification Programme in Japan	Tadahito Emizu, Yuka Inoue, Hiroaki Hamada	Associate Professor, Tokai University, Japan Associate Professor, Bunkyo University, Japan Professor, F.Oberlin University, Japan
		2-9 Science Centres' Contribution to Engagement with Science – the Brazilian	Diego Vaz Bevilacqua	Head Officer, Museu da Vida - Fiocruz, Brazil
		2-10 Sponge City: Return a City to Nature	Chunhua Feng	Researcher, Hangzhou Low Carbon Science & Technology Museum, China
	Cocktail	—	—	—

Time	Programme	Topic	Speaker	Organisation
10:55-12:10	Parallel Session	C-1 Awareness to Actions! - Global Changes and Future Earth	Asher Minns <i>(*Moderator)</i>	Head of Communication, Future Earth Europe / Tyndall Centre for Climate Change Research, University of East
			Fumiko Kasuga	Global Hub Director, Future Earth
			Sakiko Yoshinami	Senior External Relations and Project Officer, United Nations Relief and Works Agency for Palestine Refugees in the Near East (UNRWA)
			Henry McGhie	Head of Collections and Curator of Zoology, The Manchester Museum, University of Manchester
			Mitsu Hara	Art Coordinator, Art Front Gallery
		C-2 Visualising STEAM Data in Support of Smart Decision Making	Katy Börner <i>(*Moderator)</i>	Victor H. Yngve Distinguished Professor of Engineering and Information Science / Director, Cyberinfrastructure for Network Science Center, Indiana University
			Stephen Miles Uzzo	Chief Scientist, New York Hall of Science
			Yuko Harayama	Executive Member, Council for Science, Technology and Innovation
			Tit Meng Lim	CEO, Science Centre Singapore
			Hans Gubbels	Director, Museumplein Limburg
		C-3 How are Current Digital Technologies Changing the Way We Learn?	Maria Isabel Garcia <i>(*Moderator)</i>	Curator, The Mind Museum
			Hans Vandamme	Director, Historium
			Maholo Uchida	Curator, Division Manager of Exhibition Development Division, Miraikan
			Quianqian Hao	Engineer, China Science and Technology Museum (CSTM)
			Yoshikazu Ogawa	Director, National Museum of Nature and Science
			Markus König	Brand Communications, Evonik Industries AG
		C-4 Beyond Numbers: Towards a Broader Definition of Economic Impact	Jennifer Martin <i>(*Moderator)</i>	President & CEO, TELUS Spark
			Stephanie Ratcliffe	Executive Director, The Wild Center
			Silvia Singer	CEO and General Director, MIDE - Museo Interactivo de
		C-5 Do I Belong? Identity and Diversity Issues in Science Centres	Charlie Trautmann <i>(*Moderator)</i>	Alexander von Humboldt Fellow, Rachel Carson Center for Environment and Society
			Kenneth Monjero	Director, Science Centre Kenya, Nairobi
			Diego Vaz Bevilacqua	Head Officer, Museum of Life
			Ganigar Chen	Director of Public Awareness of Science, National Science
			Andrew Hannah	Director of Science Programs, Scitech
		C-6 How Philosophy is the Future of Science Centres	Carol Valenta	Former Chief Scientific Officer, Saint Louis Science Center
			Walter G.F. Staveloz <i>(*Moderator)</i>	Director of International Relations, ASTC
			Fiorenzo Galli	General Director, Museo de Scienza Leonardo da Vinci
			Robert Firmhofer	Chief Executive Officer, Copernicus Science Centre
		C-7 Interpreting and Advocating for Sustainable Technology and Innovation	Linda Conlon	Immediate Chair, ASTC/Chief Executive, International Centre for Life
			Erik Jacquemyn <i>(*Moderator)</i>	International consultant, Jacquemyn & associates
			Zhimin Zhao	Assistant Researcher, China Science and Technology Museum (CSTM)
			Vincenzo Lipardi <i>*CXL</i>	Secretary General, Fondazione Idis-Città della Scienza
			Anurag Kumar	Curator 'F', National Science Centre
			Daniel Thamsanga Mphokela	Science Centre Manager, ArcelorMittal Science Centre
			Orthwein Endowed Professor for Lifelong Learning in the Sciences, University of Missouri	
			Keith Miller	
			Naohiko Kohtake	Associate professor, Smart System Design Laboratory, Keio University
12:10-13:25	Lunch	—	—	
13:25-13:27		Opening		
13:27-13:30		Opening Remarks	Tit Meng Lim	President of ASPAC/Chief Executive of Science Centre Singapore, Singapore
13:30-14:18	Special Session by ASPAC Our Next Vision -- insight for economic growth and sustainability	Panel Discussion	Graham Durant <i>(*Moderator)</i>	Senior Commentator on International A airs, NHK (Japan, Broadcasting Corporation) / NHK World Special A airs Commentator, Japan
			Chi-ming Shun	President, Commission for Aeronautical Meteorology (CAeM) of UN World Meteorological Organization (WMO)/Director, Hong Kong Observatory, Hong Kong
			Shahbaz Khan	Director, the UNESCO Regional Science Bureau for Asia and the Pacific, Australia
			Duckhwan Lee <i>*CXL</i>	Professor of Chemistry and Science Communication Program, Soongsil University, Korea
			Julia Tagüeña	Deputy Director General for Scientific Development, Mexican National Council of Science and Technology
			Tit Meng Lim	President of ASPAC/Chief Executive of Science Centre Singapore, Singapore
14:18-14:21		ASPAC Overview and Closing Remarks	Mao Hattori	Ambassador, World Biotech Tour (WBT)
14:21-14:24			Mild Yata Thanakarn	Ambassador, World Biotech Tour (WBT)
			Shiya Huang	Ambassador, World Biotech Tour (WBT)
14:24-14:25			Tit Meng Lim	President of ASPAC/Chief Executive of Science Centre Singapore, Singapore

Time	Programme	Topic	Speaker	Organisation
14:40-15:55	Parallel Session	D-1 Communicating Natural Disasters, Man-made Hazards and Risks	Yasushi Ikebe (*Moderator)	Principal Investigator of Science Communication, Miraikan
			Reihvella A. Perez *CXL	Planning Officer III, Philippine Science Heritage Centre
			Daegil Hong	Director, Exhibition Research Division, Daegu National Science Museum
			Norio Ohmagari	Deputy Director General and Director, Department of Infectious Diseases, National Center for Global Health and
			Szu-yi Lo	Project Manager, Visitors Services Division, National Science and Technology Museum
		D-2 Water Sustainability – Collaboration between Science Centres and Public Bodies	Chee-kuen Yip (*Moderator)	Ex-officio Executive Director/IPC Representative, ASPAC
			Daniel Tan	Senior Director, Projects & Exhibitions, Science Centre
		D-3 Science Centres and Formal Schools Transforming Science Education Globally through Co-design	Andrew Belanger	Director, Springs Preserve
			Ronen Mir (*Moderator)	Director, Weizmann Institute of Science, Schwartz/Reisman Science Education Centers
			Jennifer Martin	President & CEO, TELUS Spark
			Amy Boulding	Head of Lifelong Learning, Queensland Museum Network
			Liat Ben David	CEO, Davidson Institute of Science Education
			John Falk	Director, Institute for Learning Innovation
			Moshe Rishpon	Clore Garden of Science
		D-4 Open Doors for Global Sustainable Activities: Collaboration Between Industry and Science Centres	Alain Coine (*Moderator)	General Delegate, Universcience Partenaires
			Yuta Tanimura	Manager, Learning and Collaboration Development Division, Miraikan
			Markus König	Brand Communications, Evonik Industries AG
			Koichi Yanagita	General Manager of Corporate Sustainability, Kao
			Chris Barr	Executive Director, Biogen Foundation
			Roger Quinlan	Sr. Vice President of Partner Managed Cloud & Business Process Outsourcing SAP
		D-5 How Do We Visualize the Social and Personal Engagement with Science?	Go Yoshizawa (*Moderator)	Associate Professor of Biomedical Ethics and Public Policy, Graduate School of Medicine, Osaka University
			Katy Börner	Victor H. Yngve Distinguished Professor of Engineering and Information Science / Director, Cyberinfrastructure for Network Science Center, Indiana University
			Ingeborg Meijer	Senior researcher Society Using Research (SURE), Centre for Science and Technology Studies (CWTS) of Leiden
			Asako Okamura	Professional Staff, SciREX center, National Graduate Institute for Policy Studies (GRIPS)
		D-6 Science, Politics and Social Media	Chevy Humphrey (*Moderator)	The Hazel A. Hare President & CEO, Arizona Science Center
			Linda Conlon	Immediate Chair, ASTC/Chief Executive, International Centre for Life
			Robert Firmhofer	Chief Executive Officer, Copernicus Science Centre
			Andrés Roldán	Executive Director, Parque Explora
			Luisa Massarani	Director -Researcher and Science Communicator, RedPOP/ Museum of Life-House of Oswaldo Cruz-Oswaldo Cruz
		D-7 How Science Centres Contribute to the Sustainable Future of Cities	Patricia Verheyden (*Moderator)	Director of Strategic Initiatives, Technopolis®, the Flemish Science Centre
			Yoshiro Miyata	Professor, Chukyo University
			Tak-Cheung Lau	Associate Curator, National Museum of Natural Science
			Gretchen Wilson-Prangle	CEO, Play Africa Children's Museum
			Sinah Magolo	Manager: Environmental Education & Awareness, Johannesburg City Parks & Zoo
			Nader Wahbeh & Hiba Burqan	Nader Wahbeh: Director of Science Studio, Hiba Burqan: Architect, A.M. Qattan Foundation
15:55-16:25	Coffee Break		—	—
16:25-17:40	Plenary Session	Co-design in Science and Technology	Eric Marshall (*Moderator)	Vice President of Prizes and Public Programs, The Kavli
			Daniele Archibugi	Research Director, Italian National Research Council, Rome, and Birkbeck College, University of London
			Genevieve Bell	Professor, College of Engineering & Computer Science, Australian National University/Senior Fellow, New Technology Group, INTEL
			Ioannis Miaoulis	President and Director, Museum of Science, Boston
			Kazuo Yano	Corporate Officer, Corporate Chief Scientist, Research & Development Group, Hitachi, Ltd.
17:40-18:40	Networking Time		—	—

Time	Programme	Topic	Speaker	Organisation
17th: Personal Engagement with Science				
Time	Programme	Topic	Speaker	Organisation
9:00-9:35	Keynote Speech	–	Krebs Kt, MA, DPhil, FRS, FMedSci, Hon DSc	Honorary Fellow and Former Principal, Jesus College, University of Oxford, United Kingdom
9:35-10:10	Keynote Session	–	Julia Tagüeña	Deputy Director General for Scientific Development, Mexican National Council of Science and Technology
			Pavan Sukhdev	UNEP Goodwill Ambassador, The Founding Trustee of Green Indian States Trust (GIST), Founder & CEO of GIST
			Thomas E. Lovejoy	Professor, Environmental Science and Policy, George Mason University, United States
10:10-10:40	Coffee Break		–	–
10:40-11:55	Plenary Session	When Do Museums Make a Difference?	Walter G.F. Staveloz (*Moderator)	Director of International Relations, ASTC, United States
			Jim Richardson	Founder, MuseumNext, United Kingdom
			Michael Murawski	Director of Education & Public Programs, Portland Art Museum, United States
			Claire Gillissen-Duval (France)	Director, EMEA Corporate Social Responsibility & Africa Code Week Global Lead, SAP, France
11:55-13:10	Lunch	–	–	–
13:10-14:25	Parallel Session	E-1 Co-design of the Global STI Ecosystem for SDGs; Expected Role of Science Centres/Museums	Fumie Imabayashi (*Moderator)	Deputy Manager, Department of Strategic Planning and Management (STI for SDGs Task Team) , Japan Science and Technology Agency
			Satoru Ohtake	Senior Fellow, Japan Science and Technology Agency
			Paulo Gadelha	Coordinator, the Ficruz Strategy for Agenda 2030
			Orakanoke Phanraksa	Policy specialist, National Science and Technology Development Agency (NSTDA)/Immediate Past Co-Chair, Global Young Academy
			Ai Ohara	Senior Manager, Japan Innovation Network
			Yumiko Horie	Advocacy Manager, Save the Children Japan
			M J Schwartz (*Moderator)	Project Officer, UNIZULU Science Centre
		E-2 Communicating Big Science	Jan Davis	Bastion Technologies, Inc.
			Lorenzo Raynard and Anja Fourie	Square Kilometer Array South Africa
			Walter G.F. Staveloz	Director of International Relations, ASTC
			Bobby Cerini	Inspiring Australia
		E-3 Science Centres for 2026 and Beyond.	Erik Jacquemyn (*Moderator)	International consultant, Jacquemyn & associates
			Hans Gubbels (*Moderator)	Director, Museumplein Limburg
			Derek Fish	Director, Unizulu Science Centre
			Michael John Gorman	Founding Director, BIOTOPIA (Munich)
			Silvia Singer	CEO and General Director, MIDE - Museo Interactivo de
			Miruna Amza *CXL	Founder, Scientifica
			Anne Catherine Robert-	Professor, Paris 1 Panthéon-Sorbonne/Ex General Director,
		E-4 Diverse Audiences' Impact	Andrés Roldán	Executive Director, Parque Explora
			Luiz Alberto Oliveira *CXL	Chief Curator, Museu do Amanha
			Chevy Humphrey (*Moderator)	The Hazel A. Hare President & CEO, Arizona Science Center
			Luis Azevedo Rodrigues	Executive Director, Laqos Ciência Viva Science Centre
			Akash Dusrath	Officer, Sci-Bono Discovery Centre
			Aphiya Hathayatham *CXL	Vice President, National Science Museum, Thailand
			Yoshie Kris	Chairman, Slow Label
		E-5 Connecting Socially and Educationally Vulnerable People with Science and Education	Barbara Streicher (*Moderator)	Executive Manager, Science Center Network
			Gerardo Ibarra Aranda	CEO, Explora Science Centre
			Silvia Prock	Head of JungeUni, Children's University of the University of Innsbruck, The JungeUni Innsbruck, the University of
			Kristin Leigh	Deputy Director and Director of Community Engagement, Explora Science Center
		E-6 Partnerships for the United Nations Sustainable Development Goals	Luisa Massarani (*Moderator)	Director -Researcher and Science Communicator, RedPOP/ Museum of Life-House of Oswaldo Cruz-Oswaldo Cruz
			Robert West	Principal, Informal Learning Experiences
			Henry McGhie	Head of Collections and Curator of Zoology, The Manchester Museum, University of Manchester
			Sheena Laursen	Programme Manager, Experimentarium
			Takashi Amemiya	Science Communicator, Miraikan
			Kogie Govender	Senior Environmental Specialist, Johannesburg City Parks
			Collence Chisita	Lecturer -Researcher in Information Sciences, Harare Polytechnic School of Information Sciences

Time	Programme	Topic	Speaker	Organisation	
14:25-15:10	Parallel Session	3-1	Public-friendly Access to Genome Editing as a Plant Breeding Technology	Yoshiko Sassa, Yuki Sasakawa Yutaka Tanaka	Senior Councilor, Specified nonprofit Corporation, Life & Bio plaza 21, Japan Senior Researcher, Specified nonprofit Corporation, Life & Bio plaza 21, Japan Professor, Osaka Gakuin University, Japan
		3-2	Macroscopes: Interactive Data Visualisations for Actionable Insights	Katy Börner Elizabeth (Lisel) Record	Victor H. Yngve Distinguished Professor of Engineering and Information Science / Director, Cyberinfrastructure for Network Science Center, Indiana University, United States Curator, Cyberinfrastructure for Network Science Center, Indiana University, United States
		3-3	Communicating Science During Public Celebration Days	Daniel Motsapi	Science Communications Specialist, ArcelorMittal Science Centre, South Africa
		3-4	User Experience Design Heuristics for Science Centre Exhibits	Andr�s Rold�n	Executive Director, Parque Explora, Colombia
		3-5	Development and Dissemination of Information Technology Guidelines for Promoting Japanese-style Wellbeing	Hideyuki Ando, Junji Watanabe Han Long D. Chen, Kyosuke Sakakura	Associate Professor, Osaka University, Japan Researcher, NTT Communication Science Laboratories, Japan Associate Professor, Waseda University, Japan
		3-6	Science Shows: not Just a Show!	Nur Karnina Bte Karim	Head of Exhibition, Oil and Gas Discovery Centre (OGDC), Brunei Darussalam
		3-7	Embracing VR or not for Visitors’ Engagement in Science Centres	Liao Hong	Deputy Director-general, China Science and Technology Museum (CSTM), China
		3-8	The Research on Volunteers’ Popular Science Transition in Science Centres	Zhang Wenjuan	Science and Technology Teacher, China Science and Technology Museum (CSTM), China
		3-9	How to Configure Interactivity and Engagement?	Subhabrata Chaudhuri *CXL	Director, Central Research & Training Laboratory, National Council of Science Mueums, India, India
		3-10	Behind the Selfie Phenomenon	Elis Monroy-Garc�a	Exhibit Development Coordinator, Interactive Museum of Economy, MIDE, Mexico
		3-11	Science Communication: Making Science Meaningful for University Students	Linda Abraham-Silver	Chief Executive O cer (CEO), Perot Museum of Nature and Science, United States
		3-12	Innovative Services and Products that Promote and Preserve Indigenous Knowledge	Mdumiseni T. Nxumalo	IKS Documentation Centre Coordinator, University of Zululand, South Africa
		3-13	The Thinking Created by the Municipal Science and Technology Museum	Ai Baomin Lv Jiwei *CXL	Chairman of Bayannaoer Association for Science and Technology in Inner Mongolia, China, Youth Science and Technology Museum, China Deputy Director, Youth Science and Technology Museum, Baganur, Inner Mongolia, China
		3-14	Engaging New Audiences in a Science Museum on Wheels	T�nia Margarida Lima Costa	Professor and Head Director, Universidade Federal de Minas Gerais, Brazil
	3-15	Exhibits for Career Advancement	Martin Potgieter Annelize Potgieter	Exhibits for Career Advancement	
Coffee Break		–	–	–	
15:10-15:15	Summary Session	Introduction	Mamoru Mohri	Chairman, International Programme Committee of the SCWS2017/ Chief Executive Director, National Museum of Emerging Science and Innovation(Miraikan) /Astronaut	
15:15-15:25		Special Address	Hiroyuki Yoshikawa	Chairman, The Japan Prize Foundation /Special Counselor to the President, Japan Science and Technology Agency	
15:25-16:10		Panel Discussion	Aiko Doden (*Moderator)	Senior Commentator on International Affairs, NHK (Japan, Broadcasting Corporation) / NHK World Special Affairs Commentator	
			Paolo Gadhela	Coordinator, the Fiocruz Strategy for Agenda 2030	
			Bruktawit Tigabu	Co-founder, CEO and Creative Director, Management and Production	
			Maria Isabel Garcia	Curator, The Mind Museum Philippines	
			Eric Marshall	Vice President of Prizes and Public Programs, United States.The Kavli Foundation,	
16:10-16:13	Closing Ceremony	振り返り映像	–	–	
16:15-16:20		Address	Michinari Hamaguchi	President, Japan Science and Technology Agency (JST)	
16:20-16:29		Platinum sponsor messages	Ajinomoto Co., Inc. KANEKA CORPORATION Ricoh Company, Ltd.	–	
16:29-16:33		Summary	Mamoru Mohri	Chairman, International Programme Committee of the SCWS2017/ Chief Executive Director, National Museum of Emerging Science and Innovation(Miraikan) /Astronaut	
16:33-16:35		Handover of the handover momento	Mamoru Mohri	Chairman, International Programme Committee of the SCWS2017/ Chief Executive Director, National Museum of Emerging Science and Innovation(Miraikan) /Astronaut	
16:35-16:45		Speech and video	Silvia Singer	CEO, MIDE, Museo Interactivo de Economia	
		Speech by Embassy of the United Mexican States	Carlos Fernando Almada L�pez	Embassy of the United Mexican States	

Session attendance

15th: Global Sustainability				
Time	Session type		Session	Attendance
9:00-9:34	Opening Ceremony		-	545
9:50-10:20	Keynote Speech		By Tadao Ando	545
10:21-10:51	Keynote Session		By Mamoru Mohri and Jan Davis	545
11:30-12:45	Parallel Session	A-1	Global Trends and the Potential Role of Science Centres	80
		A-2	Capacity Building to Face Crises - the Role of Science Centres and Museums	44
		A-3	Picture Happiness on Earth: An International Collaboration for the Promotion of STEAM Education	30
		A-4	What Might a Manifesto for ‘Responsible Science Engagement’ Look Like?	18
		A-5	Collective Engagement: How Innovation and Partnerships are Reshaping Engagement	33
		A-6	Developing Science Centres in Africa for Equality of Opportunity and Global Sustainability	25
		A-7	Unique Perspectives on Quality and Inclusive Science Education of All	73
14:00-15:15	Parallel Session	B-1	Can Eco and Edutourism help Science Centers Become More Sustainable?	23
		B-2	Sustainable Energy Futures: Science Centres/Museums Glocally Approaching a Multifaceted Key Challenge	37
		B-3	Connecting and Empowering Youth	90
		B-4	Government Policy and Science Centres	65
		B-5	Creative Informatics for the Earth	40
		B-6	The Future of Fulldome – An Open Dialogue	43
		B-7	Gender Equality and Reduced Inequalities	37
15:30-16:45	Half Plenary Session	1	Systems Thinking for Sustainability	74
		2	Science Centres and Global Sustainability - What's the Plan?	110
17:45-18:45	Special Session		The Tokyo Protocol: Our Global Plan for Local Action	242
16th: Co-design for Transformation				
Time	Session type		Session	Attendance
9:00-9:35	Keynote Speech		By Gordon McBean	220
9:35-10:10	Keynote Speech		By Bruktawit Tigabu	255
10:55-12:10	Parallel Session	C-1	Awareness to Actions! - Global Changes and Future Earth	15
		C-2	Visualising STEAM Data in Support of Smart Decision Making	43
		C-3	How are Current Digital Technologies Changing the Way We Learn?	61
		C-4	Beyond Numbers: Towards a Broader Definition of Economic Impact	21
		C-5	Do I Belong? Identity and Diversity Issues in Science Centres	34
		C-6	How Philosophy is the Future of Science Centres	36
		C-7	Interpreting and Advocating for Sustainable Technology and Innovation	11
13:25-14:25	Special Session by ASPAC	Our Next Vision -- insight for economic growth and sustainability		165
14:40-15:55	Parallel	D-1	Communicating Natural Disasters, Man-made Hazards and Risks	35

	Session	D-2	Water Sustainability – Collaboration between Science Centres and Public Bodies	12
		D-3	Science Centres and Formal Schools Transforming Science Education Globally through Co-design	39
		D-4	Open Doors for Global Sustainable Activities: Collaboration Between Industry and Science Centres	47
		D-5	How Do We Visualize the Social and Personal Engagement with Science?	13
		D-6	Science, Politics and Social Media	39
		D-7	How Science Centres Contribute to the Sustainable Future of Cities	34
16:25-17:40	Plenary Session		Co-design in Science and Technology	130
17th: Personal Engagement with Science				
Time	Session type		Session	Attendance
9:00-9:35	Keynote Speech		By Lord Krebs Kt, MA, DPhil, FRS, FMedSci, Hon DSc	205
9:35-10:10	Keynote Session		By Pavan Sukhdev and Thomas E. Lovejoy	222
10:40-11:55	Plenary Session		When Do Museums Make a Difference?	190
13:10-14:25	Parallel Session	E-1	Co-design of the Global STI Ecosystem for SDGs; Expected Role of Science Centres/Museums	30
		E-2	Communicating Big Science	39
		E-3	Science Centres for 2026 and Beyond.	55
		E-4	Diverse Audiences' Impact	25
		E-5	Connecting Socially and Educationally Vulnerable People with Science and Education	31
		E-6	Partnerships for the United Nations Sustainable Development Goals	25
15:10-16:10	Summary Session		-	220
16:10-17:10 17:15-19:00	Closing Ceremony/Farwell Reception		-	260

Session summaries

Keynote Speech 15th Nov Tadao Ando

Enormous progress has been made during the 20th century, yet there has been trouble as well. Beautiful images from paintings from years ago showed people living with the environment, and with one another, Can we leave a beautiful planet to future generations? We need to live in harmony with one another, with nature, and with science and technology. We must help each other in order for our children to have time to simply live with nature and with family. Each of us must think on how to do this.

The Kyoto Protocol hoped to reduce CO2 emissions to create a better world, yet suddenly we have been faced with challenges such as terrorism, natural disasters and other issues such as energy resources, food and water. We need the time to utilize the power to think, to develop a better life.

In 1994 I worked with UNESCO to build a structure with a small garden to represent peace in the world; a place where people could gather and interact. But 9/11 made us reconsider. It seemed to me that where the towers stood should be a place for contemplation. Many people said that the towers should be replaced with another tall building as economical concerns were the future. I disagree. Architecture is for people, for neighbors of all kinds, local, national, regional and global.

In 1955 I designed a home, inspired by structures that welcomed people and nature, and it had an open courtyard in the centre to live with the rain, sun and wind of nature, and would be zero carbon emitting. It still stands and is occupied by the original owner.

I designed Shibuya subway and rail station also to be zero carbon emitting, with air flow helped by the air pushed by the trains. Open, people spaces helps you know where you are and where you are going.

The Naoshima Museum was designed to exist with the natural environment, replenishing the trees, and assuring a clear view of the beautiful scenery. It considered the past, present and future, as well as the value the culture and the natural surroundings.

The natural surroundings can be enhance by creating other forests, like sea forests to help the area. When designing the Nagao Primary school, there were no trees. So, I enlisted the children to collect acorns, plant them, nurture them and now they have a richer natural environment for the school. Children learned to live with nature.

The 2011 disasters drove me, along with others, to help rebuild some of the devastated areas. We collected \$40M USD and built a special open library with windows to appreciate the area and the books are picture books for children. Since then, we have gone on to continue to develop children's libraries to encourage reading and developing their minds to think, of the area, and of their parents and family. Each also has a gathering place to be thoughtful. Humans must come together, create together for a positive, sustainable future.

Keynote Session 15th Nov
Mamoru Mohri and Jan Davis

Moderator: Ms. Aiko Doden (AD)

Speakers: Dr. Mamoru Mohri (MM), Dr. Jan Davis (JD)

Dr. Mohri's presentation; *Space Exploration Gifts to a Sustainable Future*

The networking of science centres and museums is important as is the idea of science and technology as one fiber that is woven into the beautiful fabric of human culture. The definition of culture is the integrated wisdom that humans have acquired over history. I would like to offer a new definition of culture that includes science and technology within that integrated wisdom for the sustainability of the human species.

On orbit in daytime, no human activity can be seen, except in snow covered areas with black dots. The bigger the dots, the more the people. Very big black areas were cities with millions of people. The human species have been sustained in cold weather by burning energy resource materials, such as coal, petroleum, or natural gas, and that changed the color of human environments as seen from space, and unfortunately, the average temperature of the planet as well. However, at night the situation was completely different and human existence is clearly on display. An alien can easily see lifeforms due to this illumination connected by electric power.

The space shuttle flew through the Aurora which is beautiful, yet is a result of deadly solar winds. What changed my life was the sight of the thin, delicate atmosphere that covers and protects Earth from the dangers of cosmic radiation, and allows all life to exist.

In fact, humans exist as a result of the lucky circumstances of the stability of the Earth's environment. We have been lucky over the last 10,000 years, as the average temperature has been warm and steady. Before that, our ancestors had been exposed to an ice age of more than 100 thousand years and survived by animal hunting, by following the moving herds.

Because the interglacial period began about 10 thousand years ago, our species invented agriculture and made it possible to stay in a permanent place that provided a unique, sustainable lifestyle separated the human species from other life forms. Since, the human population has been ever increasing due to much wisdom, particularly from science and technology.

A new era began when we acquired a global view from space, as it convinced us of the fact that our planet is the *only* environment we have to sustain our species.

Then at the beginning of this century we had a genomic view, on the atomic level, as the human genome was analyzed. We were convinced of the fact that the human species is not so special among the diversified, earthbound life forms from the viewpoint of DNA sequence. Earth is a part of the Universe, beyond specific design and yet, all Earth life forms are connected.

Science and technology have provided a new perspective that I call, in Japanese, "TSUNAGARI" which means establishing a relationship, or connection, or linkage, or network, over time. We humans have become complacent in our good fortune, and now our planet is quickly bringing us back to reality. From that concept came what I call, the Triangle of Tsunagari.

Keynote Session 15th Nov
Mamoru Mohri and Jan Davis

It's an inverted pyramid beginning with the Tsunagari of cells, and how cells work towards their sustainability, followed by the Tsunagari of the Individual to sustain the individual with the essences of life such as food, air, water, sleep, and shelter.

To continue life we needed a generational Tsunagari, as well as individual Tsunagari, and that combination is what we call societies. A human society is made up of many cultures, such as, and in no particular order: religion, military, nations, politics, arts, education, business, and science, to name a few. No one culture alone can sustain a society, rather, each culture contributes to the whole. This society concept worked quite well, until humans started having major impacts on our planet. Just as no one individual can sustain a society, no one society can sustain our planet. To sustain our human species, we must sustain the natural environment of Earth, so we must progress to the Tsunagari of the Planet of Life, a transformation, designed to sustain all life through the integration of all of combined wisdoms from all societies into a Global Wisdom by means of Science Communication. It is important to realise that humans are just one of over 50 million life forms and all are connected through the global environment with the key words such as, biodiversity, sustainability, symbiosis, and genome. In order to bring all this together, we need, we deserve, a fresh perspective of our Earth and therefore, the sustainability of the human race.

That brings us here, to the Summit, with the stated theme of "Connecting the World for a Sustainable Future". Science centres and science museums have a great potential to contribute to our sustainability utilising Tsunagari with as many possible cultures resulting in a grand global wisdom. This will be challenging, and will take time, and concentrated efforts..., and I truly believe we can work towards sustaining this phenomenal planet of life, and thus, sustain the human species. For the coming three days, I truly hope you keep in mind the Tsunagari concept in each of your experiences.

Open Discussion

(AD) What are some of the memories of working with Dr. Mohri in space?

(JD) We trained in Japan and made wonderful friends. In fact, space is a good way to have the world work together.

(AD) Dr. Mohri, what about you?

(MM) Real time connection with Earth was a challenge.

(JD) Mission Control had to connect with multiple locales for Dr. Mohri's educational broadcast.

(AD) Dr. Mohri, many of the experiments were about gravity?

(MM) Yes. In fact we started off the programme by having students in Hokkaido pretend to throw an apple to me on the Shuttle. The apple reminds us of Newton and gravity, and is a symbol of education in the U.S.. Christa McAuliffe was to be the first U.S. citizen astronaut and teacher to go in space and was lost in the Challenger accident. So, I wanted to carry on Christa's ideas. And we are, and we represent scientists, so we wanted to share the wonders of zero gravity. I

Keynote Session 15th Nov
Mamoru Mohri and Jan Davis

did an experiment with a dried cherry blossom and inserted it into a floating ball of water, representing Japan's culture of cherry blossom tea.

(JD) Yes, we always aspired to find new ways to show the fascinating world and principles of space travel.

(AD) Dr. Davis, what about women in the space programmes?

(JD) I was fortunate in that many women went before me and blazed the trail, and I always had support from everyone in the programme and I've been able to encourage young women to follow their dreams.

(AD) Dr. Mohri, a little girl asked you if she could go in space. What was your answer?

(MM) I told her everybody floats, so strength is not a factor, so male and females are equal.

(AD) Dr. Davis, what can be done to bring more women into STEM?

(JD) I ask everyone to encourage a better understanding and appreciation of science. Anything is possible.

(AD) Dr. Mohri, what is the importance of Tsunagari for multilateral stakeholders and challenges?

(MM) Well, the ISS is a collaboration among 15 nations. Plus, big, expensive science subjects like high energy physics requires that nations and stakeholders share the costs. Science centres can inform the public on what and why of such science projects.

(AD) How do we adopt new ideas as drivers of change?

(JD) Seeing our planet from orbit I realised we have only 1 home and we share it. Again, space can be a unifying force for the world.

(AD) Some technologies are unavailable to some people. How can we overcome that challenge?

(JD) That is true, and the answer is in communication to bring the information forward, then provide.

(MM) Concerning AI, we must remember that it is a product of science and technology which is a product of humanity, and humanity always exceeds technology.

(AD) What is the future role of science centres?

(MM) Science centres have great potential by utilizing humane, engaging communication and thereby contribute to making the U.N.'s 17 SDGs a reality.

Half Plenary Session 15th Nov
“System Thinking for Sustainability”

Moderator: Walter G.F. Staveloz (WS)

Speakers: Dame Sally Davis (SD), Akissa Bahri (AB), Alfredo Tolmasquim (AT)

Mr. Staveloz opened the session with an introduction of how the science centre field supported the 2012 Rio Plus 20 Summit concerning sustainability. This first international effort was to have science centres educate society in sustainability based upon “Future Earth” research verified by evidence based decision making. Outreach clinics between scientists and centres developed and efforts led to the International Science Centre and Science Museum Day. A challenge still relevant is the incorporation and linking of the United Nations’ 17 SDGs. Thus, system thinking can be applied, with this session indicating potential directions with addresses on “Antibiotic Resistance Crisis and SDGs”, “Sustainable Water Resources for Africa” and “Ethical Guidelines: Sustainability and Coexistence”.

(SD) How can we sustain modern healthcare and deliver it? This directly connects to SDG goal 3, Good Health and Well-Being. Antibiotics are essential for modern health, and humans use antibiotics in a myriad of ways. But there are problems that must be addressed. If we use too many antibiotics, bugs can become resistant. Approximately 700,000 people die every year due to antibiotic resistance, or a drug resistant infection. Tens of thousands of babies die worldwide and the overall problem is getting worse. This affects the young, the old, and pregnant women due to immune systems being compromised. Tuberculosis with multi-drug resistance requires a massive amount of drugs compared to a regular TB patient. By 2050, more people will die of TB than cancer. This will have an economic impact, cost 60-100 trillion dollars, resulting in devastating influences on poverty, hunger and inequalities. We must find new drugs and approaches. The first antibiotic was introduced in 1928, and the last was in 1987. Since then there has been a discovery void, because there is no funding for research.

Antibiotics are a complex system. They are used in promoting livestock or fish stock growth, so that feeds into the food chain to humans, increasing their resistance to antibiotics as well as those same humans carrying anti-resistant bugs around the world. The 2016 UN General Assembly has been made aware of the antibiotic resistant problems and set up an interagency group.

We must think systematically, and creatively include many sectors of society, with science seeking new vaccines to limit infections, new ways to use antibiotics, and new, more effective techniques to deliver those drugs. Social media can increase awareness, empower people to assure a sustainable future. We must or we will lose our powerful antibiotics to treat diseases.

(WS) What can an individual do?

Half Plenary Session 15th Nov
“System Thinking for Sustainability”

(SD) Ask the doctor if an antibiotic is truly needed, and what other forms of treatment are available.

(WS) What about resistance to vaccines?

(SD) Generally, there is high vaccine coverage. The UK offers transparent information and education. Often, vaccines reduce bacterial infections as well.

(WS) Poverty eradication biggest problem is the lack of system thinking. What about in your field?

(SD) Yes. My role is to show the connections and system thinking so all can see how this affects them.

(AB) According to the World Economic Forum, there are 5 major global risks: 1. Water, 2. Failure to address Climate Change, 3. Extreme weather events, 4. Food crisis, and 5, profound instability. Water is number 1 and interconnected to the rest. Water includes sanitation, malnutrition and food. Demand is outpacing supply, so threats to sustainability are threats to water resources. Globalization, population growth, water/energy/food security, consumption patterns, pollution, land degradation, bad governance, and unsustainable finance investments in water supplies are all challenged by climate change.

Africa is projected by 2050 to increase the temperature 2 degrees C, which means an increase in severe droughts and floods, 15-20% decrease in crops, a 1% increase in arid land, -5 to +20% difference in rainfall, an impact on water quality, a decrease in biodiversity affecting 80-97% of African species, a decrease in productivity, an increase in poverty and malnutrition. Africa, the continent that contributes the least to climate change will be affected the most. Africa must store water to meet present and future challenges. Irrigation of Africa covers only 5%, compared to India's 50%. Infrastructure and system thinking can secure more water. Irrigation and farming employs more than 50% of Africa's population, with great potential for more. Women make up more than 50% of the farmers, produce 90% of Africa's food, and comprise 70% of the workforce. African hydropower potential has yet to be realised, only 5% of the continent enjoys that power with 95% in darkness. Water security is the thread connecting food, sanitation, employment, and is at the heart of economic, geopolitical, and societal risks. Urban water is a concern as 50% of the population resides in cities.

System thinking resulted in African Water Vision 2025, with targets of drinking, irrigation, sanitation and hydropower each dramatically increasing. 50 billion dollars investment per year over 20 years is needed, with no help in sight. So, for sustainable water management, there must be an interdisciplinary, integrated approach in which all areas of society work together.

Half Plenary Session 15th Nov
“System Thinking for Sustainability”

(WS) What cultural barriers are there to implementation?

(AB) Equality issues, interestingly. Reclaimed water that is perfectly drinkable is sometimes rejected as drinking water.

(WS) What types of innovative scientific research can make a difference?

(AB) How to rethink the toilet, address the cultural differences between the dry and wet toilet; the sanitation supply chain can be improved; and study more ways to turn sludge into useful products, like electricity, selling that power to the grid.

(WS) Any champions of water in Africa?

(AB) Many, and each must be nurtured and developed.

(AT) Humanity is facing a period that will define our future for many years. 7.5 billion currently populate on the planet, with an expected 10 billion by 2050 or sooner. This means bigger cities, and stresses on food, energy, water, climate change, biodiversity and pollution are all having a terrible impact. By 2050, there will be more plastic in the oceans than fish. This period is referred to as the Anthropocene, which reflects irreversible environmental changes due to human activities. Science centres with their credible communication based upon scientific evidence can inform the public, raise awareness and discussions about current conditions facing all life on this planet, and what can be done.

The Museum of Tomorrow takes action believing today determines tomorrow, society chooses the desired future, and so we must open our minds, transform our thinking and change behavior. We are a museum of questions and possibilities. The museum is a testimony to system thinking. Our Ethical Guidelines are Sustainability and Coexistence. The Museum of Tomorrow is an environmentally friendly structure with engaging activities and exhibitions that are based on science, artistically appealing, immersive, and culturally aware. There are 5 points to the museum, Cosmos, Earth, Anthropocene, Tomorrows, and Us. All 5 are related and provide a symphony of information, much like a samba parade. Cosmos interactively considers the universe; Earth addresses who we are by way of matter, life, thought and cultures; Anthropocene looks at where are we environmentally; Tomorrow shares ideas on the condition of our planet, society and humans; and US asks how do we want to continue. There are connections amongst all 5 and also considers the past and future.

(WS) I thought people do not change behavior based upon data..., how do you deal with that?

Half Plenary Session 15th Nov
“System Thinking for Sustainability”

(AT) Our society has a strong belief in science and thus we need to share data complete with a humane, communicative approach.

(WS) Do you do surveys?

(AT) Yes, we do them to learn what visitors think of exhibitions and what kind of sustainable problems to engage, for example the handling of solid refuse.

(Q) Ms. Davis, is there evidence that agricultural antibiotic chemicals that seem into rivers cause antibiotic resistance? And what about the negative impact of vaccines?

(SD) We expect and hope that as they become diluted in the waterways, the potency declines. I would like to note here that Norway and Scotland are effectively using vaccines with no noticeable impact.

(Q) How many associate antimicrobial with antibiotic resistance?

(SD) Policy and public drug resistant infections seem to be at the forefront.

(Q) Sustainability and coexistence in terms of water worldwide, what do you think about the politics involved?

(AB) This is an important problem and the UN framework and other ways to cooperate are some of the approaches. Many times people independently take action and begin cooperation.

Special Session 15th Nov
The Tokyo Protocol: Our Global Plan for Local Action

Mr. Fish and Mr. Jacquemyn were the Moderators and provided the history of the Science Centre World Congress which began in Finland in 1996, 1999 India, 2002 Australia, 2005 Brazil, 2008 Canada, 2011 South Africa, and in 2014 in Belgium the Congress became the Science Centre World Summit in order to be more inclusive of all of society's stakeholders.

Mr. Fish and Mr. Jacquemyn then introduced the Mechelen Declaration, reviewing all of its 7 points, using the 7 Dwarves as a medium. Each Dwarf represented a point complete with many examples from around the world of that particular point being carried forth. The International Science Centre and Science Museum Year was replaced by the International Science Centre and Science Museum Day (ISCSMD) with the first being on November 10, 2016, and the latest being November 10, 2017. The United Nations introduced the SDGs in 2015 and many science institutes around the globe had related activities with the Museon in the Hague, Netherlands featured.

Dr. Mohri then introduced the Tokyo Protocol as the blueprint for SCWS2017 and a call to action for all towards the SDGs. Dr. Mohri emphasized that the Protocol was challenging, and thrilling to unite the world in support. The Protocol was endorsed by the SCWS2017's International Programme Committee, agreed and signed by the world's 6 major science centre/museum networks and represents an action plan for 2017-2020. Each of the 9 parts of the Protocol was introduced.

Mr. Fish and Mr. Jacquemyn returned to the stage, this time to use 9 types of samurai, 1 for each of the Protocol's 9 points. Each samurai was defined and then a clear reference to its particular Protocol point. The moderators then invited the heads of the 6 regional networks (Ecsite, ASPAC, ASTC, NAMES, SAASTEC, and RedPOP) to the stage and asked each to offer perspectives and envisioned actions to be taken.

Mr. Munder of Ecsite suggested collaboration amongst members, institutions, and networks, and to look within and outside of his region with discussions and activities in order to make the Protocol a reality.

Professor Lim of ASPAC said that the Asian region has already embraced point 3 - to be a platform for discourse and exchange for a widely diverse set of society's actors and point 8- serving as a catalyst for better understanding and actions towards the SDGs.

Mr. Labine of ASTC mentioned that having all 6 regions sign was very important, and then reported that his region had 2 activities that included gender balance in STEM, as well as participating in the ISCSMD.

Ms. Azab of NAMES informed the panel that hers was a young organisation founded in 2006, and that inspired by the Tokyo Protocol are endeavoring to increase inter-regional cooperation as well as discuss ways to maximize resources.

Mr. Mnguni of SAASTEC said his area embraced Protocol point 1- expanding public awareness and engaging in actions to realize the SDGs, and point 3 - to serve as a platform for discourse and exchange.

Special Session 15th Nov
The Tokyo Protocol: Our Global Plan for Local Action

Ms. Massarani of RedPOP acknowledged and applauded the challenge of having such a diverse group of networks sign the Protocol. She then suggested the Mexico Protocol might feature balance the gender with the points represented by Amazons. Ms. Massarani said her region was focused on making people aware of the SDGs and then to engage in collaboration across the region, learning and understanding each other and inviting other networks to interact.

Keynote Speech 16th Nov
Gordon McBean

We are concerned with sustainable development and linking social, economic, technology, science and environmental issues and the future with the present and it is important to show these relationships throughout society. This is where science centres can play a key role in helping society to understand those connections and persuade society to take action.

Towards sustainable development, on October 26, 2017, the International Council for Science (ICSU) and the International Social Science Council (ISSC) voted to merge, with the name of the International Science Council (ISC). This integrates all science together into 140 national and regional areas.

The U.N.'s Sustainable Development Goals or SDGs give 17 goals and objectives with 169 targets are very important, and they are all interconnected. A number of international agreements and organisations are also directly connected to the SDGs. The entire science community needs to work together on these, and science centres play a key role in and outside of the science community to foster understanding, cooperation, and taking action.

As Dr. Mohri mentioned in his keynote address, we must create a global wisdom to meet the global challenges. One is climate change with a mitigation - a 2 degree maximum rise in the Earth's temperature and adaptation — adapting to the inevitable changes. There are uncertainties in science some slight, and in society's responses, which are larger in numbers. Science centres can persuade societies to take action to safely respond to those changes that are coming.

Global Risk Assessment by the World Economic Forum over the next 10 years sees extreme weather events as the highest risk, followed by natural disasters, and failure of climate change mitigation and adaptation. Many of the risks are related to the failure of governance. Again, science centres can greatly help in informing the public and spurring action.

We need an integrated and system thinking approach amongst the major organisations for policy and science centres which can utilise the communication skills to inform and motivate the public. A global perspective, a gift from space exploration, is invaluable to gain an appreciation of our planet.

1957 saw the first systematic global carbon dioxide measurements and ozone measurements along with the International Geophysical Year of the ICSU. This is fundamental science and it needs to be supported and promoted to the public by scientists and science centres.

The ICSU is for all societies, stressing excellence in all sciences, translated into policies and developing societies, the sharing of scientific data with freedom to do science. ICSU has many international collaborations illustrating co-design. We then disseminate the data to all.

Future Earth, a group of scientists and stakeholders natural and social sciences, is research for global sustainability, based on co-design, co-produce, and co-deliver. It provides societies the knowledge needed to face global environmental change and to seize opportunities towards global sustainability, and is supported by numerous worldwide agencies.

Keynote Speech 16th Nov
Gordon McBean

Science centres could be an important part of Future Earth through Knowledge-Action Networks (KANs). We are creating around the world to have scientists and stakeholders work together to find solutions and take actions.

Integrated Research on Disaster Risk considers how to reduce risks and what actions can be taken to improve survivability, we call that risk interpretation to action. We are investigating how this can work together with science centres.

Policies for Science and Society focuses on responsibilities of global science, develop fully global science capacity, science and technology for a sustainable future, and challenging science policy and practice. Open data in a big data world is also a concern with proper attribution. There is also the International Network of Government Sciences Advisors with 650 members that meet biannually, to address global challenges and better advise our governments.

The idea of science, alone, holding up the world is simply untrue, and so we must work with all aspects of society to answer the global difficulties facing all life. The Tokyo Protocol works well with all science and science centres can be the foundation of communication and actions.

Keynote Speech 16th Nov
Bruktawit Tigabu

I am nervous, and excited to be speaking today. I feel now as I did when I took the first episode to the broadcaster first time. My husband and I put everything we had into a pilot programme, a children television series called, "Tsehai Loves Learning". I was a novice with no professional background, but I knew it needed to be done. With only one television station in the country, I believed "no" was not an option. But first, I will offer a quick background on how I started. I grew up in Addis Ababa, in the rural area. My mother was educated, but my father was illiterate. I didn't know I was poor. Every weekend I ran to my neighbor's home to watch TV, my favourite show — An old man story teller, and little did I think I would be on the other side creating children media.

I was a preschool teacher and wanted to find better ways to teach pre-school and elementary school students. After working all night, I loved seeing the kids' faces when they would see the new posters. I thought there were too few educational materials to enhance my students' learning. I remember, too, the kids that attended kindergarten outperformed the kids that did not attend. I needed to find a way to fill that educational gap for millions of children in my country. This led me to create "Tsehai Loves Learning".

Imagine a 23 year-old teacher from a poor background who wants to education millions of children through educational TV. Would you invest? Through hard work and many years that is exactly what I did. The company I created has over 100 episodes of our flagship programme, "Tsehai Loves Learning" which has since won many prizes. This was followed by "Involve Me" of which I will talk about today, along with "Tibeb Girls".

Using the power of media and art, we promoted education and social issues, and most importantly, character development, critical thinking, and curiosity. We are Ethiopians teaching Ethiopians, so we know our audience. But, it has been difficult to getting the support we need. So, I challenge the approach to co-design, and suggest you consider selecting a local champion from your target audience. We need to follow that local champion. But what is the difference between co-design and a local champion? With a local champion, you find someone who is passionate for transformation and you mentor them to become the primary designer, and let them become the champion of your design. For example, a village was approached by a group that were going to donate mosquito nets to stop malaria. The village was excited and gladly received the nets. But rather than sleep with the nets over them, the villagers used the nets to catch fish. If the group had a local champion, that champion would have help the villagers to understand the original use.

Transformation starts from within. I let children design in media communication. We had about 12 girls, 12 -14, who were in a shelter house protected by some kind of abuse. They were extremely shy. They could make a film about what mattered to them, early child marriage. The young girl who created her film escaped from difficult situations, including child marriage. In a very short time, her 1 minute film she powerfully encompassed her hopes and fears of being

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Bruktawit Tigabu

returned to her father. The 1 minute story was from the child's point of view. She was my local champion and her video was very popular throughout the country.

Transformation takes mentorship, trust and humility. We need to believe and empower the local champion. One of the topics in this next example was again, early marriage. The 12 girls were still in school, and we wanted to reinforce their desire for an education. They were also very shy. With 4 days another amazing transformation. The night before their performance, 3 girls asked to talk to me about a problem, and they insisted that I would help. I agreed and learned that 1 girl was to be a child bride in exchange for a cell phone and some money. I told them I would tell the authorities. They said no, because the father would be arrested and no one would be providing for the family, making the situation even worse. I had no idea what to do. The girls were holding me to my word to help, be strong, and take action. We gave the girl a chance to tell her own story in one of the films. The next day was the community screening, and I sat in the back, unable to face the community leaders. At the end of the screening, I thought of my own daughter and of her potential and when asked to make a comment, I broke. In the end, the promised child bride was not forced into marriage and the father was not arrested, and the community elders made sure all the girls stayed in school.

I was lucky and my transformation was difficult, yet changed me. The community must engage and the champion must be supported in order to make positive changes.

I am now working on a 3 super girl animation called "Tibeb Girls" that was further inspired by those 3 young girls I had met. One is Power Girl with super human strength and speed, one is Whiz Kid Girl with the power to see the future and has superhuman logical abilities, and the third is Empathy Girl with the power to see the past and feel others feelings. All three Tibeb Girls come together and their powers multiply into an unstoppable force to make great changes. Girls need to see themselves on screen as strong and confident and able to accomplish whatever they set their mind to. I fully believe that Africa and the world would be a much better place with equal opportunity for all. Sustainability is achievable only if all of the world's population, male and female, is involved.

Here is my challenge: how do I spread this message all over the continent? How do I empower local champions? I know and trust local champions and together we can do it. Find a local champion, empower, mentor, trust, and with humility, support that champion. Embrace the challenge and transformation this will bring you. Our goal is not to complete our design, but rather have the champions take over our design, and send us toward our next great challenge.

Special Session 16th Nov
Our Next Vision — Insight for Economics Growth & Sustainability

Moderator: Graham Durant (GD)

Panelists: Chi-ming Shun (CMS), Julia Taguena (JT), Shahbaz Khan (SK)

Guest Speaker: Tit Meng Lim (TML)

(GD) ASPAC started 20 years ago to represent a region with great diversity. Next year celebrates our 21st anniversary and we are asking ourselves, "How can we respond to meet the challenges of the future?" ASPAC also enjoys a strong sense of unity with staff exchanges, joint projects and the like.

Science is a universal right, and we must extend our relationships throughout society. So, let's get something done — our "moonshot"—to be completed by 2020. Imagine what young people need for this century and beyond.

(CMS) Climate change, at the present we are at a 1.1 degrees Centigrade increase with a maximum target of 2.0, with record of higher and higher temperatures over the last few years. Heat waves are prevalent, flooding and typhoons/hurricanes/storm surges are increasing in intensity. All are high risks.

The Hong Kong Observatory is dedicated to excellence in protecting lives and building a better society. We have outreach through SNS, apps with approximately 1 billion visitors, and is an important media platform to engage the public. The Hong Kong Science museum and the Jockey Club Museum of Climate Change — the first in the world devoted to climate change with 200,000 visitors annually.

There are 3 challenges for all of us: 1. skeptics — we must put forth extra efforts in address them with evidence based data, 2. Not our problem -we must educate people to the personal impact of climate change, 3. What can we do? We welcome all partnerships to deal with all 3 issues, as we must mitigate climate change and adapt to it.

(JT) We are part of the Pacific alliance, and we share climate change concerns, as well as sharing what can be done. Four Pacific coast countries have worked on climate change with mitigation and adaptation.

There is one more risk, earthquakes. When a country has suffered from this natural occurrence, the international response was and is heartwarming. How can we reduce earthquake risks, and how can we better deal with an earthquake when it hits?

Education leads to practical steps. For example, a little girl saved many lives when she warned people at the beach to get to higher ground when the sea receded from the beach. That little girl learned of the risk in school.

Let's have a special alliance between ASPAC and RedPOP in sharing effective ways to handle such risks. I am also representing the National Council of Science and Technology of Mexico, and Mexico is keen to be involved and promote international cooperation.

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(SK) There are 10 key global challenges agreed worldwide: poverty, pollution, population growth and urbanisation, food security and sustainable production, diseases, energy, disasters, water and environmental resources, climate change, and peace and security. A big Asia-Pacific challenge is urbanisation. This is a region of opportunity - middle income countries - means a more potential for science and technology and for south - south cooperation. What is the way forward? How do we move to a better world? It's about resources and understanding the key challenges with water/food/energy, and then assuring decent jobs leading to peace and cooperation. UNESCO is linking with many SDGs. For example, youth and climate change, and this is a chance for science centres, as science is a universal human right as declared in Article 27 in 1948. SDGs and science centres must be linked together such as in the planting and transferring of rice. Science is not a luxury, rather it is a reality, a necessity, which needs to be made in terms of fulfillment. How can we make this everyone's business?

(TML) ASPAC has a new logo that reflects our area of over 60% of the world's population and is comprised of wonderful diversity. We have the science centres and friends search that covers many institutions and offers a wide range of data. The Science Centre Index helps us to know ourselves better.

ASPAC member co-created the "Rice is Life" exhibition. Many key areas were address with many subjects, a wide perspective and with a variety of topics. For example, rice is all around us and is a rich part of many cultures.

ASPAC collaborates within and outside of our region. For instance, "Picture Happiness on Earth" presented ideas from Asia. Another is "Beautiful Rice for a Sustainable Future" represents a communal sharing. One more is the "World Biotech Tour", and I would like 3 representative ambassadors of WBT to each quickly share a thought on that tour.

(Shiya) 12 science centres participated in WBT project and I am an Australian rep.

(Mao) I am from Japan and am concerned that fewer young people are interested in science. I learned from the Tour how to study, what interests me, how to think and how to participate. I hope the tour continues.

(Mild) I am from Thailand and am concerned about global warming. I had the chance to learn about bioplastic that degrades once returned to the environment. I also learned to improve my communication skills. I, too, hope the tour continues.

(TML) ASPAC speaks the universal language of science. Join us in Taipei, Taiwan for ASPAC 2018, annual conference. This is the start of even more collaboration, we are diverse, and unified.

Plenary Session 16th Nov
“Co-Design in Science and Technology”

Moderator: Eric Marshall (EM)

Speakers: Genevieve Bell (GB), Daniele Archibugi (DA), Kazuo Yano (KY), Ioannis Miaoulis (IM)

(EM) The fact is our world is quickly changing and accelerating. How can we in science and technology co-create with our communities to manage change for a better tomorrow? Yet, most people fail to feel empowered to play a role in change, in spite of the fact we are all much more interconnected. Each speaker will present a perspective then we will have a discussion.

(GB) The World Economic Forum's chart on the 4 Waves of Industrialization (Industrialization 4.0) offers a tidy history and where we might be headed. The 1st wave is Mechanization, the 2nd is Mass Production, the 3rd is Computer and Automation, and the 4th is Cyber Physical Systems. Yet, they are void of humans, society, citizenship, and any type of structural/institutional response to technology. So for each step we can imagine what might have been the response, what did co-design look like and how does that set us up for the future?

The 1st wave was from 1700-1800, Managing Systems from small to large. An analogy would be developing a steam locomotive, then a train, and continue to an entire transportation system. A co-design moment was the development of engineering schools and the first engineers brought together the physical and natural sciences along with philosophy, the arts, logic and law, and was spurred on by government.

The 2nd wave was in Mass production and Managing Capital at an unprecedented level by industrialists. One industrialist named Wharton invested in a business school and it developed new ideas/approaches such as GDP and its measures, labor relations, and management skills, thus being a co-design between business and education.

The 3rd wave, Computer and Automation, Managing Computers saw a change in software. Software was, at that time, owned by private companies, so the U.S. government requested higher education to create a software language for everyone. There were 3 co-designs, 1) driven by social order, 2) driven by the private sector, and 3) by government.

The 4th wave, Cyber Physical Systems is about Managing Data, going from machine learning to AI to autonomous and semi-autonomous machines. This presents 3 questions for the future and of co-design: 1) What is the nature of autonomy that involves technology and policy, 2) What is the nature of the agency (ies) involved - how do we use this? and 3) What is the nature of assurance- is it safe?

(DA) Science Fiction: a source of, and warning for, innovation. In 1989 I saw the movie “Blade Runner” and was impressed by the fantasy of new technologies. In the movie, nature had been destroyed and socialisation was measured by the floor upon which you lived, with the lowest living on the street and the wealthiest in the penthouses. There were 2 major and different clusters: 1) information and communication, and interrelated technologies, and 2) biotechnology

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“Co-Design in Science and Technology”

and artificial nature. “Blade Runner” both under and overestimated scientific advancement. For example, today’s devices far outpace those in the movie. But, the biotechnology in the movie has yet to be realised. The most important consideration is “what are the dangers for the future?”

In the movie “Transcendence” there is a combination of 2 classes of technology, then artificial intelligence is introduced. So, there was an integration of ITCs, robotics, nanotechnology, and biotechnology. Like in “Blade Runner”, advancement was due to entrepreneurship rather than a societal process.

Processing big data is key for successful actions. We need to include all aspects of society in co-design. We must answer the questions of “What do we citizens demand from science?”, and “What we as consumers ask for in the marketplace?” We must decide what we need with more imagination. Where you go depends very much on what you want.

(KY) AI has been unrealistically described by Hollywood. Many structures involve AI, so people need to know the reality of AI. We have gone from “rule oriented” to “outcome oriented”. AI will replace rules with outcomes, for example with AI auto safety. Instead of being concerned with traffic lights or fixed speeds, AI will focus on getting people to their destination safely and as quickly as possible. AI needs to be combined with existing systems with outcomes defined by humans.

An example of AI was a robot on a swing and learning how to increase the arc of the swing by the robot’s movement. It was like watching a child discover how to swing, and it took AI just a few minutes to achieve maximum arc. This type of learning is used in warehouses, retail stores, and railways. Plus, physical motion using human data and by being outcome oriented shows great potential.

I was and am a subject in which AI charts my life patterns, and have done so for 24 hours a day for 8 years. We combined similar data from many people and we were able to quantify happiness in diversity of motion. Happy people are more productive, and we have developed a smart phone happiness app. We believe we can redesign society through AI and big data. An outcome oriented approach is needed and will have a major positive impact on society.

(YM) When I began at Tufts University school of engineering, I learned that 25% of engineering students dropped out in the first year and went into other fields. So, we set up a co-design programme with students, gathered data and ideas on how to better introduce engineering to first year students. With those results we had the faculty each share personal passions about engineering and Tufts became the leading engineering school in attendance and growth. I then became involved with making engineering equal to science in schools. We partnered and co-designed with teacher groups, policy makers and politicians and now engineering is in many public schools.

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A Network of Science Centers project on nano-technology was sponsored by the National Science Foundation and we co-designed with science centers, research partners, government agencies, STEM professionals and visitors in creating the project and it was a great success. We then expanded using the same approach for chemistry, biology, and space. Thirty million people have benefited and it is now a national project. Science centers can use co-design with a wide variety of society to introduce big ideas for all of us.

(GB) We've always has processes that were co-design. Maybe we didn't call them that, but there are more ways to see and invite people.

(EM) "If you see a better world, you are morally obligated to make it happen." What does that mean to you?

(GB) My mother raised me to believe in a life of service and one should contribute for others to benefit in all ways, to bring as many into the conversation as possible. In technology, we need more of this.

(DA) Moving from and moving towards...., There is a paradox, enormous amount of opportunities, and a huge amount of social problems. We need to integrate the two for a better life and this is social imagination. For example, we need to use better imagination in the utilisation of cars...., perhaps non-owned, but focus on the efficient usage. This is also co-creating.

(KY) Co-creation is very important, but buzzwords alone will result in no progress, because there is no clear purpose. Outcome oriented is key, we need to radically change the rules, for example traffic lights and speed in rethinking cars.

(EM) Being a scientist and engineer, what do you see, in addition to having the outcome, what is the role of questions in this process?

(KY) Outcome oriented focus requires good questions on a higher level of meaning.

(IM) I am surprised with decisions on what exhibits to build and how. The process was the Vice President came up with an idea, wrote a proposal to get funding. Then once funded, 3 years later an exhibit was finished. So I proposed to open the doors of exhibit design to all — visitors and outside experts to help us decide and design. We involved over 200 people, both visitors and non-visitors.

(EM) What other societal actors are important in co-design?

(IM) Involve those who don't usually come to the museum.

(Questions from the audiences)

(Q) Outcome oriented idea, how would design experiences indicate the happiness outcome? How would you differentiate good happiness with "bad" - like a drug induced happiness?

(KY) There is no easy answer, and events are platforms for quantified happiness. For example, our technology allows us to quantify data and we can share, then reinforce that. Happiness can be raised by skills, actions, and rewards. The most effective way to be happy is individually.

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There are many meanings of happiness and the first is biological happiness. So our motion reflects our wellbeing.

(Q) AI is outcome oriented, yet many movies see AI negatively. What can science centers do?

(IM) The most successful exhibits combine entertainment and education. Find a popular topic and sneak education into it. As for AI, find a positive popular context, then talk about it and feature the education about AI as a key element.

Keynote Speech 17th Nov
Lord Krebs Kt, MA, DPhil, FRS, FMedSci, Hon DSc

Professor Lord John Krebs

Food: Facts and Fears

I will address public engagement with science by considering 1) risks, 2) diet and health, and 3) behavior change. Food is a good place to start with the public and it has broader relevance. We all eat about 1,000 meals a year. We are bombarded by the Internet with opinions on food. It is important to help the public navigate that information. I will give some examples of statements taken from the headlines and choose between true or false. "Organic food is safer" — false. "Artificial sweeteners encourage people to put on weight." — false. "Saturated fat increases the risk of cardiovascular disease." — probably true "Sugar is worse than fat in terms of obesity" — false. "Food dyes make children hyperactive." — not proven.

Rather than scoring, one should ask as to the validity of, and evidence for each claim. One must always investigate how the evidence is produced and what sort of evidence is provided.

When I learned science in high school, I learned a set of facts. But science is a way of finding out how the world works and facts arise over time and a consensus of views. When re-examining those claims posed, each are agreed with to a varying amount. When carefully looking at evidence, the evidence is often fuzzy. Why? Much evidence is epidemiological, but this could be a failure to accurately gather evidence. Plus, the interpretation of evidence can be influenced by bias. So, science and risk must be weighed against subjective impressions and unfamiliarity.

The media also contributes to subjectiveness, such as the term " Frankenfood invasion" deriding genetically modified foods. Thus, the first step is to define what science is and what evidence means. About 15 years ago, there was a food risk in the U.K. that I had to address. Swedish scientists discovered if you cooked starchy food such as bread or french fries/chips at a high temperature around above 100 degrees Celsius, acrylamide is formed — a potential carcinogen. Looking at this in detail, many things have within potentially cancer causing elements, like coffee, chocolate spread, alcohol and baby food. But that doesn't mean they are a risk to your health, as it depends on the dose. Acrylamide is not new. We decided to inform the public that the amount was so tiny there was no need to worry. The message is that life is not risk free, and no food is totally risk free, so keep risks in perspective.

The way we talk about risks is important in the way people understand. What about comparing risks? First we need a "common currency". Stanford came up with "micromort" — micro and mortality, a unit of risk as a one-in-a-million chance of death. For example, if 1 million people run a marathon, statistically 7 will die, thus a micromort of 7.

Another currency is called "mircrolife". For example a young adult in their 20s has about 57 years of life expectancy, which is 1 million half hours (30 minutes), so a microlife unit is 1 half hour. Different lifestyle choices can affect one's life expectancy of the 48 mircrolifes in one day.

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Lord Krebs Kt, MA, DPhil, FRS, FMedSci, Hon DSc

Let's move onto uncertainty. We were concerned with Mad Cow disease or bovine spongiform encephalopathy, BSE and wondered if it affected sheep. We engaged the public and informed them. There are known unknowns and unknown unknowns, and that is where we were with sheep and BSE. So we said there was an unlikely, yet possible risk, we are working to find out more and we are not advising you to stop eating lamb, and it is your choice. We then did a survey and discovered roughly 66% knew about the announcement, and over 80% had not changed their diet, with 66% of them increasing their lamb consumption. So you can engage the public with complicated situations. The real risks to our health has to do with the impact if our diet on chronic diseases such as heart disease, stroke, and cancer. The estimate is that 33% of the risk of developing one of those is attributable to diet.

A new threat to health is obesity and it is a major risk factor with 1 in 5 children worldwide being obese. What is the best way to communicate the importance of diet? One was is a graphic illustration — a pie chart in the U.K., a pyramid in the U.S., and an inverted pyramid in Japan. Many countries have nutritional campaigns, yet these seem to have little effect. I suggest we turn to behavioural psychology.

Many of our decisions are not based upon facts and evidence, but rather on intuition. People respond to positive messages. For example "eat this delicious food" can be quite appealing. It's called "choice architecture, or nudging. Tests have shown people respond to good messages about food.

In conclusion, we must engage the public and help them navigate the risks in food, diet and health, and help the populace change their behavior for the better.

Keynote Session 17th Nov
Pavan Sukhdev, Thomas E. Lovejoy, Julia Tagüeña

Moderator: Julia Tagüeña (JT)

Speakers: Thomas E. Lovejoy (TL), Pavan Sukhdev (PS)

(JT) This session addresses Personal Engagement with Science and the Tokyo Protocol directly addresses this in a number of areas. The question is, "How can engagement facilitate becoming a fully sustainable community?" Plus, we should keep in mind the United Nations' 17 Sustainable Development Goals (SDGs). Possible questions for the speakers are:

Why is engagement important for sustainability?

When did you become engaged?

Which strategies do you use to engage society — a top-down framework, a bottom-up framework, or a middle-out framework?

Which is the role of science centres in sustainability engagement?

(TL) We can do the best science, but if we don't find ways to communicate, with the rest of society, it's almost as if we didn't do any science at all. It is important to speak to as many as possible in everyday language.

(PS) Sustainability at every level of society, so we need engagement which is essential at every level.

(JT) On a more personal level, how did you become engaged with sustainability?

(TL) When I was at the age of 13 and I went to a zoo and I liked animals, so I thought, "This is where I want to go." They had a fabulous biology teacher that inspired me and before I was 15, I understood the outline of life on Earth.

(PS) Being brought up in India, I was close to both nature and people. I became a scientist first and a finance person second and I did not understand why my jobs were so far from nature and people. That changed with my children, and I fell back into love with nature. We had forgotten the difference between value and price as we have become fixated on the markets. Somehow, only something with a price had a value. So, I began to rethink economic redesign. You cannot change the direction of the economy and its impacts without changing the nature of the engine that drives it. So, I became obsessed with measuring the economy at the macro and micro level.

(JT) Tell us about your Australian experience.

(PS) As I started to integrate my life between being a senior banker and my passion for nature, I wanted to offset the carbon footprints of myself as I travel so much, and of my family. So, I bought land in Australia and built a home and replanted the forest in that area with the native, local species, thereby reducing our footprints on Earth.

(JT) Dr. Lovejoy, why did Brazil award you with such a prestigious honor?

Keynote Session 17th Nov
Pavan Sukhdev, Thomas E. Lovejoy, Julia Tagüeña

(TL) I set foot in the Amazon in 1965 and never looked back. I engaged in scientific research there and came to realize this could be an incredible classroom for decision makers from around the world. Over time my introduction is more about them, the decision makers, and for them to learn about the forest and all life within.

(JT) What about strategies?

(PS) I like Thom's strategy because he invites people like me to his Camp 41 and many people were there. Camp 41 is 41 km from the mail road. It was incredible to be surrounded by such vibrant nature, howler monkeys make astonishingly loud noises in the middle of the night.

Every level works. Top down if you're a policy maker, bottom up if you're an NGO and corporations work from the middle-out.

(JT) And you? What about your strategies?

(TL) Firsthand experience is very intensive and limited in numbers. So reach out in other ways like starting the Nature Series on the U.S.'s Public Broadcasting Service in 1982. That tapped into a real hunger that public had and has to this day. The series is the most popular long term PBS programme in its history.

(JT) What are possible places for science centres? What would be your advice to them and their role?

(TL) I worked with the Smithsonian and the outreach to the public is astounding. Methods of introduction of science are always being re-considered. Science centres can play a key role.

(PS) The ability of images and objects to communicate truths is powerful if more available to people. That is live education.

(JT) Mr. Sukhdev is an expert on green economy. Your point of view on cyclical economy?

(PS) here is too much of a linear approach — take—>make—>waste, and the Earth does not have infinite resources, nor an infinite capacity to absorb the waste. Rather we need a circular design. For example, nature has no waste, everything gets used. Plus, we should get the most from every process and create a design for economical and industrial processes which is circular. We are so far away from that and we need numerous policies to change numerous institutions to evolve everything. Everything is pretty much global, so change comes from different areas and levels. We must be more inclusive, more collaborative, in finding solutions.

(JT) What is your opinion about these economic issues, Dr. Lovejoy?

(TL) To obtain sustainability, we must have an economic system that can promote that. Mr. Sukhdev is wrongly criticized for putting a price on nature. Rather, he says we must put some value on nature for people to thereby, value nature. All children are interested in living things. It is essential for science centres to use that intuitive curiosity to help people realise we're part of this living planet and we should manage our planet with that in mind.

(JT) Tell us where did the two of you meet?

Keynote Session 17th Nov
Pavan Sukhdev, Thomas E. Lovejoy, Julia Tagüeña

(PS) I think it was at the World Bank, Thom is on the board, and then we met in Nairobi and began plotting change.

(JT) What have you seen by improvements and/or concerns in the world?

(PS) My passion is to re-design economies and corporations, making sure performance is measured correctly. We cannot manage what we don't measure, and what we do measure, we do manage. We provide lots of ways to measure by including impact on nature. The business world has responded much faster than policies.

(JT) And you, Dr. Lovejoy?

(TL) One lesson learned was how important it is to actually listen. One way that can change a conversation is to say, "No organisation can exist without affecting its environment." So, it's not a choice if we affect the environment, but it is which way do we affect it? As we struggle and work towards to 17 SDGs, we need to keep listening and known that each will affect the environment.

(Questions from audiences)

(Q) Mr. Sukhdev, you mentioned a circular economy, is it possible to achieve that?

(PS) For well over 4 billion years, there has been a circular economy on the planet. Only humans have departed from that. The challenge is finding applications for a more circular economy. For example, waste from steel can be inputted to the cement plant. Anything that is linear on a finite planet cannot be lost. An example would be the bodily waste from the dinosaurs. Had that not been in a circular environment, we would be wallowing in dinosaur poop.

There must be more bio-mimicry, technology cycles, and biological cycles all need to be involved. Transitions are the challenges of policies, prices, and institutions. Environment affects species as well as corporations, what I call corporation 1920, needs to evolve to the new environment that incorporates all that has been mentioned.

(TL) Important lessons have been embedded in the world's history of life. In northern Australia, I was walking across a 1.5 billion year old sea floor, and you could still see the ripples covered with a blue-green bacteria, the dominant for of life. Then that bacteria oxygenated the atmosphere and made possible the rest of higher life forms, like ourselves. A different understanding is that oxygen was toxic waste to the blue-green bacteria.

(Q) If you can measure you can manage, could we change the measurement of economies from labor/productivity to resources/productivity?

(PS) It would help. Capital was sufficient and resources unlimited in history. Total productivity needs the focus since the purpose of government means the wellbeing and wealth in all its forms and measure them inclusively. Inclusive wealth is something we have the means to do.

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(TL) One Earth Group in Australia has done a fine job in natural capital accounting that needs to be much more widespread.

Plenary Session 17th Nov
“When do Museums Make a Difference?”

Moderator: Walter Staveloz (WS)

Speakers: Claire Gillissen-Duval (CD), Michael Murawski (MM), Jim Richardson (JR)

(WS) This is an excellent conference in that we are taking qualitative steps by responding to the conference theme and the U.N.'s Sustainable Development Goals (SDGs) as essential to what we are doing now and into the future to address global issues. We should also be more inclusive with all of society and be more relevant to and designed for the great general public that includes staff. One answer is co-designing with all of society in the science center overall approach.

(CD) I am the Director of Corporate Social Responsibility (CSR) for Europe, the Middle East, and Africa for SAP (Systems, Applications & Products in Data Processing) — a multinational software company. Today I'll address a 2015 continent-wide launched by SAP and by the Cape Town Science Center called “African Code Week” in which over 1 million students participated over the past two years.

The African Development Bank call to action was very clear. “It's time to join forces and be bold in our approach.” Africa will have the largest potential work force by 2035, and contribute half of the global population growth by 2045. Africa will be a driving force for the global economic engine if the population has access to education and training. During the European Round Table of Industrialists in 2016, SAP's CEO, Bill McDermott appealed to them that training workers for a digital economy is a corporate responsibility. So, companies, governments and science centres are joining to assure that training is implemented. But how? By working hand-in-hand with governments, schools, science centres, non-profits and the private sector to make coding the fourth pillar of education. By working together we benefit all involved, and there are 100+ partners, 15 government agencies, 70+ ambassadors ensuring the training of teachers to make coding a daily school activity. This speaks volumes on how private-public organisations can have a positive impact and the sky is the limit. We concentrate on training teachers and trainers who then train students and the students help each other learn and understand.

We use the code, “SCRATCH”, a powerful, playful collaborative teaching system that, along with coding, teaches math, critical thinking, problem solving, teamwork, and creative thinking. Plus we are now focusing on girl empowerment. Women feed the entire continent, carry small trade, and so must be supported.

If people can see the private-public sector cooperate and collaborate towards the advancement of the population, it builds trust in those institutions, and encourages and gives hope to the public.

(WS) What is SAP's motivation to be involved?

Plenary Session 17th Nov
“When do Museums Make a Difference?”

(CD) SAP's CSR is important as we conduct projects that have share value with multiple groups and there are 2 important areas: 1) Planting the seeds of coding skills sparks children's interests and improves the chances of them becoming professionals, thereby improving quality of life, and 2) We work with governments, non-profits, science centres by doing so allows them to gain a new perspective of SAP.

(WS) Why do kids love this?

(CD) Kids are naturally curious, and usually coding is considered only for boys, but girls have proven to be equal or better. Both boys and girls have shown amazing results.

(MM) A work I will be addressing is on a very local scale. I came from education area and consider myself a cultural activist and see museums as agents of change. May 27th, 2017 we hosted the “Upstanders Festival” event in support of social justice activism.

The museum is a place for the community to come together, almost like a sanctuary. A place that heals, is safe and for compassion, equality and inclusiveness. We've been motivated to take a stand by events within the U.S., and we've learned about social action. We are a member of a coalition of over 40 museums across the United States called, “Mass Action”, and it gives museums the resources to be socially active.

What have we learned? Museums need to think of their work as human centred, and that includes those that staff the museum as well. It gives more of a sense of responsibility over what our institutions are doing to address the issues we are trying to affect. A museum's commitment to social justice, climate justice, equality, and inclusion is based not in liberal partisan politics or an aggressive agenda or “us vs. them” mentality, but rather a deep sense of empathy, human connection and human wellbeing.

The value of community ownership or control is very important as well. To achieve this, we need to reconsider authority and bring the community into the institution and utilize their strengths and skills. To be active we must engage with activists, so local champions, as Ms. Tigabu mentioned in her speech, are essential.

Museums are not neutral, staying “above” the political and social issues that affect our lives and embracing the myth of neutrality. That has been a powerful, false story that museums don't have a role to play in social change. In conclusion to quote James Baldwin, “Not everything that is faced can be changed, but nothing can be changed until it is faced.”

(WS) What are the barriers in your own institution to having your staff be activists?

(MM) it's easy for 1 person to present, yet fail to represent the people who work there. A key question is, “What does it look like to build a community of change within the museum?” We are doing both, internally and in the community itself and we are always considering how to evolve.

(WS) Do you have a tool kit for your own staff and what is in it?

(MM) The kit involves personal examination/discovery and thinking of how to work with others within the museum.

Plenary Session 17th Nov
“When do Museums Make a Difference?”

(WS) Are there science museums or centres in the Mass Action coalition?

(MM) There are several.

(JR) I grew up in a coal mining town where the mine closed and that made for difficult economic conditions. My father would take us to the city to visit science and art museums, which had a profound effect on me. In later years I asked him why he did that, and he said he wanted to help us to see possibilities. Science centres can do that.

Museum Next looks at the future of museums and is a network of museum professionals around the world to find new ways to innovative and be relative to the world. For example, the Scottish Marine Museum has the Scottish Boat Building School, that teach selected students practical, transferable skills, that also helps keep traditional Scottish boat building alive. The museum recognised community needs and the museum strengths and brought the two together.

Other museums are also offering classes for the betterment of the community. This can gain government funding making the museum more financially robust. Museums working the private sector can be incubators and accelerators for mutually beneficial projects.

ACMIX run by the Australian Center for the Moving Image needed more space for exhibition and moved into a large office block that was only half full. So, they now house 60 entrepreneurs and creative professionals associated with the museum's focus of moving images. ACMIX is playing an active role in moving images with an eye towards the future.

A question to consider, “Could museums help young businesses in your community?” Middleborough Institute of Modern Art's project of “Useful Art” works with local artists to create, such as working with a local furniture designer to design a furniture collection. This benefitted the museum, the artist, and the community.

Another question to consider, “Could your museum set up a social enterprise to create opportunities for young people?” Health and well-being is a concern for many museums. The National Museums of Liverpool's “House of Memories” provides training programmes, supports and trains caregivers and provides participants with information about dementia as well as skills and resources for practical memory activities. The graying of society is growing and by 2020 there will be more people over 65 than those under 5 years of age, for the first time in history, and by 2050 older adults will outnumber children under the age of 14. So, science museums can think about how to serve the aging community.

Some museums are working with homeless people through art. Some are working with refugees to show how their culture is respected within their host country, and how the host country overcame the ravages of war, thereby inspiring the refugees to recover. Some museums stand up for refugees' rights, or marriage equality or equal justice.

Museums can make a difference through education, exhibitions, and going beyond to contribute to their communities thereby becoming more relevant and contributing more to society.

Plenary Session 17th Nov
“When do Museums Make a Difference?”

(WS) What do you tell your kids about museums?

(JR) Interactive, vibrant museums attract and excite them, so there is little I need say.

(WS) There seems to be an increasing gap between what people want and what people get.

What is your research on this?

(JR) We did research across the States asking if a museum took a stand on a topic, what do you think of that. Young people in particular wanted museums to take a stand.

(Questions from the audience/ (Q) questions or comments(C) from the audience)

(Q) Mike, is there a risk in such activities in that you are preaching to the converted? What about others?

(MM) We focus on equality resisting oppression, and this is not directed at a particular group, rather from issues that are shared. It's a communication challenge.

(JR) It seems that anything is political at the moment, and that is a challenge to address any topic.

(C) What does political mean? It may be dangerous to use that as an excuse to avoid discussion.

(MM) We are not partisan or lobbying for a particular idea.

(Q) Who is the voice of the museum? What happens if the local needs are different from the sponsor's needs?

(MM) One way is to say trust the intellect of the community and stay true to that. To evolve we need to embrace change, sometimes at the cost of the sponsor.

(Q) Mike, you just said museums are not neutral, just not partisan, but that in itself is partisan.

(MM) We all define these terms differently. We do not represent any political group or party.

(Q) To Jim, you presented many ways a museum could be relevant to the community through activities. Public perceptions about science centres are hard to change. What can we do?

(JR) I suggest to work with different groups thereby appealing to different audiences. Plus, publicising is key for that.

(Q) To Claire, what type of resistance did you encounter in working with governments?

(CR) Truly zero. I do have Key Performance Indicators to measure our effectiveness, and as for the governments, we had excellent cooperation, with representatives attending every event.

(Q) Claire, what has been surprising for you to reach younger children in your code week?

(CR) I will hand over the microphone to Julie Cleverdon of the Cape Town Science Centre.

Plenary Session 17th Nov
“When do Museums Make a Difference?”

(Julie Cleverdon) It was very well received by the children, they loved it and we found, the younger the better.

Summary Session 17th Nov

Dr. Mohri opened the session stating the goals of reviewing the entire Summit: what was discussed and proposed actions to take and complete by SCWS2020 in Mexico. He then introduced Professor Yoshikawa, Chairman of the Japan Prize Foundation, Special Counselor to the President of Japan Science and Technology Agency (JST) and a member of the SCWS2017 Honour Committee.

Professor Yoshikawa reviewed history of dialogues between science and society, from 1972 to 2017. 1992 was a key gathering with the United Nations Rio Summit that focused on sustainability. 1999 saw the International Council for Science (ICSU) General Assembly in Cairo that promoted science for knowledge and for peace for development and society. Professor Yoshikawa said the continued dialogues over 45 years resulted in the successful merging of the ICSU and the International Social Science Council (ISSC), closing a gap between the sciences.

Both ICSU and ISSC value science itself and the scientific method which are essential for the UN's SDGs. Professor Yoshikawa suggested that in society there is a social loop that consists of the Actors, Society and Nature, Observers, and Designers. Science Centres should be within that loop to facilitate communication between all members of the loop.

A Panel Discussion was then convened by Ms. Aiko Doden, the Moderator, to discuss thoughts and perspectives on SCWS2017 and what to expect in the future.

Dr. Paulo Gadelha began this portion by emphasizing the need to give science a relevance and meaning, as was done in SCWS2017 and should continue towards SCWS2020 and the UN's Agenda 2030 towards the realization of the SDGs. We also need extend an invitation to even more outside stakeholders for 2020. "We want a world in peace, not in pieces."

Ms. Maria Isabel Garcia asked, "What criteria do we use to evaluate SCWS2017?" She then listed many, and concluded that most important was the personal connections, to remember and continue to interact with the faces and voices met at the Summit, to build on what we learned and on how to help each other.

Ms. Bruktawit Tigabu spoke of connections between science and humanity, and visitors and the youth. The role of the youth should be increased with very young scientists and perhaps even as keynote speakers. They are the future.

Dr. Eric Marshall stressed the importance of Tsunagari, and the awareness that we are all connected. Science Centres are in a strong position to help craft meaningful connections between business, science and society. SDGs and the Tokyo Protocol means we must work together, breaking barriers through communication.

Ms. Doden then asked, "How to best engage the public to bring about a sustainable future?" Answers ranged from eliminating inequality, go to those in need and offer knowledge, assure education is available and listen to what the community needs, never

Summary Session 17th Nov

underestimate anyone, rather give them a chance to excel, and have a diverse staff that can relate to each segment of society.

Ms. Doden then asked each panel member to tell of 1 thing learned. Answers offered: difference in context determines what a person does and how he does it, so know the context and Tsunagari; Connect knowledge, community and people and engage the youth; Add boldness to have the courage to do what you need to do.

Opening Ceremony Programme

Time	Lap	Scene	Action
08:00	60'	Doors open	
(08:37–08:52)		Welcome performance by NHK Symphony Orchestra, Tokyo	String quartet
08:58	1'	Opening video	
09:00	2'	His Imperial Highness the Crown Prince enters the hall.	
09:02	1'	Opening address	Aiko Doden, Senior Commentator on International Affairs, NHK (Japan, Broadcasting Corporation)
09:03	5'	Greetings from the organiser	Mamoru Mohri, Chair, SCWS2017 International Programme Committee Chief Executive Director, Miraikan - The National Museum of Emerging Science and Innovation
09:08	5'	Greetings from the co-organiser	Kazuo Todani, Vice Minister of Education, Culture, Sports, Science and Technology
09:13	5'	Greetings from His Imperial Highness the Crown Prince	His Imperial Highness the Crown Prince
09:18	3'	Greetings from the Secretary-General of the United Nations (read by a deputy)	António Guterres, Secretary-General of the United Nations
09:21	3'	Greetings from the President of ICOM	Suay Aksoy, President, ICOM (International Council of Museums)
09:24	10'	Special speech	Her Royal Highness Princess Sumaya bint El Hassan, President, The Royal Scientific Society, Jordan
09:34	1'	Closing	
09:35	1'	His Imperial Highness the Crown Prince leaves the hall.	
09:36		Opening ceremony ends	

Annex: Closing Ceremony Programme

Time	Lap	Scene	Action
16:10	3'	Video of SCWS2017	<ul style="list-style-type: none"> A video of the events from 15 to 17 Nov. at SCWS2017 is projected.
16:13	2'	Greetings from the MC	<ul style="list-style-type: none"> The MC enters and welcomes audience to the closing ceremony.
16:15	5'	Greetings from the organiser	<ul style="list-style-type: none"> Michinari Hamaguchi, President, Japan Science and Technology Agency
16:20	3'	Message from a sponsor (1)	<ul style="list-style-type: none"> Video message from a platinum sponsor
16:23	3'	Message from a sponsor (2)	<ul style="list-style-type: none"> Video message from a platinum sponsor
16:26	3'	Message from a sponsor (3)	<ul style="list-style-type: none"> Video message from a platinum sponsor
16:29	11'	General overview Handover ceremony	<ul style="list-style-type: none"> General overview given by Mamoru Mohri, Chief Executive Director of Miraikan - The National Museum of Emerging Science and Innovation, and handover ceremony
16:40	5'	Presentation given by a representative of the host country of the next SCWS (Mexico) 1	<ul style="list-style-type: none"> Presentation given by a representative of the organiser of SCWS2020
16:45	5'	Presentation given by a representative of the host country of the next SCWS (Mexico) 2	<ul style="list-style-type: none"> Presentation given by the Ambassador of Mexico to Japan
16:50	3'	Video message about SCWS2020	
16:53		Closing ceremony ends	

Closing Ceremony Programme

Time	Lap	Scene	Action
16:10	3'	Video of SCWS2017	<ul style="list-style-type: none"> A video of the events from 15 to 17 Nov. at SCWS2017 is projected.
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16:23	3'	Message from a sponsor (2)	<ul style="list-style-type: none"> Video message from a platinum sponsor
16:26	3'	Message from a sponsor (3)	<ul style="list-style-type: none"> Video message from a platinum sponsor
16:29	11'	General overview Handover ceremony	<ul style="list-style-type: none"> General overview given by Mamoru Mohri, Chief Executive Director of Miraikan - The National Museum of Emerging Science and Innovation, and handover ceremony
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16:50	3'	Video message about SCWS2020	
16:53		Closing ceremony ends	

The Science Centre World Summit 2017 (SCWS2017)

Sponsorship Prospectus



Miraikan – the National Museum of Emerging Science and Innovation



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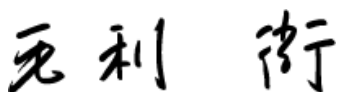
1. Greetings from the Organiser

We are pleased to announce that Miraikan - the National Museum of Emerging Science and Innovation has been appointed to host the Science Centre World Summit 2017 (SCWS2017).

With the world's population expected to reach 10 billion in the near future, our wellbeing is being threatened by various worsening global challenges such as global warming and resource depletion, coupled with the aging of society and explosive population growth. Faced with this situation, we must bring together all the wisdom in the world and tackle these challenges as one to preserve Earth, our beautiful planet, for future generations.

The theme chosen for SCWS2017 is "Connecting the World for a Sustainable Future," which focuses on the roles to be played by science centres/museums to combat the global threats that affect humanity. With participants including scientists, educators, policymakers, representatives of international organisations and industrial leaders, as well as those associated with science centres/museums, SCWS2017 will provide a venue for participating science centres/museums to develop long-term strategic partnerships with various stakeholders with a view to connecting science with society, and to identify new roles to play in society. We hope that the discussions among representatives of various specialties will lead to new collaborations and strategies, which will eventually help us make substantial progress towards a sustainable future of Earth.

While we are aware that the cost of SCWS2017 should be ideally covered by registration fees to be paid by participants and other internal budget, we would like to seek your kind support as sponsors of this significant summit meeting to ensure the attendance of representatives of a wide range of society from around the world and to attain the goals of this meeting without fail. We would greatly appreciate your understanding of the purpose of SCWS2017 and support for its successful implementation.



Mamoru Mohri, PhD
Chair of International Programme Committee
Chief Executive Director of Miraikan

2. Profile of Miraikan

2-1. Purpose of Miraikan

Miraikan is a government owned, national museum in Tokyo, Japan. Miraikan is where people can understand the things happening in their world today from a scientific point of view, have discussions and consider the future that awaits.

While the progress of science and technology has helped improve living standards, it has also given rise to various global problems such as global warming and aging of society, which are becoming increasingly serious and posing a serious threat to our wellbeing. With the growing necessity of addressing these global challenges, Miraikan aims to contribute to preserving Earth, our beautiful planet, for future generations by redefining the roles of science and combining wisdom from various specialties.

The Geo-Cosmos, the symbol exhibit of Miraikan, depicts our shining Earth, enables each visitor to sense a personal relationship to the Earth, and, eventually, leads each guest to think how to sustain this beautiful planet. In addition, Miraikan offers opportunities to experience science and technology through science workshops presented by Science Communicators, the Dome Theater and more. Visitors can encounter the technological progress of today that includes the global environment, space exploration, and amazing life on the Earth.

2-2. Quick Facts about Miraikan

Name:

Miraikan – the National Museum of Emerging Science and Innovation

Chief Executive Director:

Mamoru Mohri, PhD

Operating organisation:

Japan Science and Technology Agency (JST)

Opened:

July 2001

Address:

2-3-6 Aomi, Koto-ku, Tokyo , Japan

URL:

<http://www.miraikan.jst.go.jp/en/>

3. Outline of SCWS2017

3-1. Significance of Hosting SCWS

The Science Centre World Summit (SCWS) assembles the world's science centres/museums leaders, and society's professionals such as, government, industry, international institutions, and research/education communities to conceive and create new approaches to global issues. They recognise the importance of public engagement in science/technology to solve those issues. SCWS, initiated by science centres, is an innovative gathering to create long-term strategies on global issues through alliances/partnerships inclusive of all fields and seeks new partnerships and new roles for science centres. SCWS 2017 builds on previous meetings with participants including professionals from science centres/museums, researchers, educators, policy makers, and industry leaders to exchange views on society's current challenges. Leaders are invited to discuss, debate and learn about many initiatives towards a sustainable future.

3-2. What It Means for the Asia-Pacific Region and Japan to Host SCWS

The first SCWS was held in 2014 in Belgium, as a representative of European countries. The forthcoming second SCWS will be hosted by Japan for the Asia-Pacific region, where remarkable economic success has been achieved in recent years but has also led to serious global threats such as climate change, rapid population aging, and income gaps within the region. Because of the rapid social changes, the Asia-Pacific region is in a position to raise problems and present views specific to the region, which makes it an ideal venue to host SCWS to discuss the sustainability of Earth. Also, Japan, which is recognized as one of the world's scientifically and technologically developed nations, is now drawing international attention as a host of the 2020 Summer Olympic and Paralympic Games. For these reasons, it is highly meaningful for Japan to host SCWS in cooperation with the rest of the Asia-Pacific region to discuss new approaches to tackling global issues.

3-3. Information on SCWS2017

Official name:

Science Centre World Summit 2017 (SCWS2017)

Period:

November 15 (Wed.) to 17 (Fri.), 2017

* Prior to SCWS2017, the CEO Forum will be convened on November 14 (Tue.), 2017 with attendance limited to current CEOs of science centres/museums.

Venue:

Miraikan

Participants:

SCWS2017 is expected to be attended by approximately 500 people from 50 countries around the world, including representatives of science centres/museums, universities/research institutions, governmental agencies, businesses, international institutions, NGO/NPO funding organisations and foreign embassies in Tokyo, as well as science communication professionals and science journalists.

Language:

English in principle

URL:

<https://scws2017.org/>

Theme:

Connecting the World for a Sustainable Future

This theme is relevant to a wide range of global issues that we all face. By adopting this theme for the summit meeting, we hope to bring together all entities in society to take collective action towards the sustainability of Earth.

Topics:

The topic of discussion for each day of the summit meeting is pre-determined based on the theme as follows.

- November 15: Global Sustainability

Science centres are, and aspire to be, hubs connecting all entities in society, encompassing perspectives to find creative and collective solutions to global challenges. The first day provides opportunities to discuss the contribution of science centres to “sustainability” in all its forms in terms of local, regional and global challenges. Participants will share, collaborate, and co-create unique solutions to achieve goals.

- November 16: Co-design for Transformation

Society needs to transform/evolve to address global sustainability. Science centres endeavor to encourage citizens and all society to partake in co-design to create and incorporate shared visions. The second day activates institutional discussions, involves all sectors, and harvests the collective intelligence of research organizations, businesses, the arts, education, policy makers, and citizens on how to best collaborate to achieve goals.

- November 17: Personal Engagement with Science

Science and technology changes at astonishing speed and thus, science centres need to further incorporate personal engagement to transform attitudes and behaviors to global challenges. The third day discusses how science centres can encourage a progressive, personal process that will enhance a centre’s mission and generate new approaches towards personal transformation.

Programme (scheduled):

Day 0: Tue, Nov 14	Day 1: Wed, Nov 15	Day 2: Thu, Nov 16	Day 3: Fri, Nov 17
	Global Sustainability	Co-design for Transformation	Personal Engagement with Science
Registration	Registration	Registration	Registration
	8:00		8:00
	9:00		9:00
	Opening Ceremony	Plenary Session	Plenary Session
	Photo Session		
	10:00		10:00
	Marketplace Open	Coffee Break	Coffee Break
CEO Forum	11:00	Panel Discussion	Panel Discussion
	Plenary Session	Panel Discussion	Panel Discussion
	12:00		12:00
Lunch	Lunch	Lunch	Lunch
	13:00		13:00
	14:00	Parallel Sessions	Parallel Sessions
	Panel Discussion	1 2 3 4 5, 6, 7, 8-10	1 2 3 4 5, 6, 7, 8-10
	Panel Discussion		
CEO Forum	15:00		
	Coffee Break	Coffee Break/Poster Session	Coffee Break
	16:00		16:00
	Parallel Sessions	Semi-Plenary Session	Summary Session
	1 2 3 4 5, 6, 7, 8-10	Wrap-up Session	Closing Ceremony
	17:00		17:00
Welcome Cocktails	18:00	Dinner	18:00
	Wrap-up Session		Farewell Cocktails
	19:00		19:00
	Gala Dinner		

4. Application Guide

4-1. Sponsorship Plans

Full Sponsorship

Sponsorship plans	fees	Privileges		
		Advertisement & Logo	Marketplace	Others
Platinum	¥5,000,000	■Company Name and logo -displayed on the official website of SCWS2017 -displayed on a signboard near the reception (Large size) -displayed in the programme book ■Advertisement -Placed in the programme book(Full page) -Slide Projection during an interval (3 slides) ■Company banner -displayed on the official app site of SCWS2017 ■Company introduction -Company name announced at the Opening Ceremony	■Complimentary exhibition booth 2 booths	-1,000 tickets to the permanent exhibition of Miraikan -Invitation to a reception (Dinner on the 1st day of the summit meeting at Miraikan) for 6 people -Company introduction opportunity at the Closing Ceremony -Company brochure included in the congress bag
Gold	¥3,000,000	■Company Name and logo -displayed on the official website of SCWS2017 -displayed on a signboard near the reception (Large size) -displayed in the programme book ■Advertisement -Placed in the programme book (Half page) -Slide Projection during an interval (2 slides) ■Company banner -displayed on the official app site of SCWS2017 ■Company introduction -Company name announced at the Opening Ceremony	■Complimentary exhibition booth 1 booth	-500 tickets to the permanent exhibition of Miraikan -Invitation to a reception (Dinner on the 1st day of the summit meeting at Miraikan) for 4 people -Company brochure included in the congress bag
Silver	¥1,000,000	■Company Name and logo -displayed on the official website of SCWS2017 -displayed on a signboard near the reception (Medium size) -displayed in the programme book ■Advertisement -Placed in the programme book (Quarter page) -Slide Projection during an interval (1 slide) ■Company introduction -Company name announced at the Opening Ceremony	—	-100 tickets to the permanent exhibition of Miraikan
Bronze	¥500,000	■Company Name and logo -displayed on the official website of SCWS2017 -displayed on a signboard near the reception (Small size) -Company logo displayed in the programme book	—	-50 tickets to the permanent exhibition of Miraikan

※Above fees exclude consumption tax.

Event-Specific Sponsorship

Sponsorship plans	fees	Privileges
Dinner	¥2,000,000/ Per dinner	<ul style="list-style-type: none">• Company banner displayed at the dinner venue• Company brochures, etc. placed and distributed at the dinner venue• Company logo displayed on signboards, etc. at the dinner venue• Opportunity for an address by the representative of the sponsor* Banner and brochures, etc. to be provided by the sponsor
Luncheon	¥1,000,000/ Per luncheon	<ul style="list-style-type: none">• Company banner displayed at the luncheon venue• Company brochures, etc. placed and distributed at the luncheon venue* Banner and brochures, etc. to be provided by the sponsor
Coffee break	¥300,000/ Per day	<ul style="list-style-type: none">• Company banner displayed at the coffee break space*Banner to be provided by the sponsor

※Above fees exclude consumption tax.

※Dinner will be held twice and Luncheon will be held 3 times during the Summit.

4-2. Marketplace (Exhibition)

Venue: 7th floor, Miraikan

Period: November 15 (Wed.) to 17 (Fri.), 2017 (Set-up by exhibitors on November 14)

Exhibition space: Approx. 4.5 m²/exhibition booth

4-3. Application Form

If you agree with the purpose of SCWS2017, please apply for sponsorship using the form on the following page.

For Application, please contact:

Science Centre World Summit 2017(SCWS2017) Secretariat
(c/o Congress Corporation)
E-mail: secretariat@scws2017.org

Application Deadline:

Deadline: Friday, March 31st, 2017

Inquiries about the sponsorship:

If you are interested in sponsorship or have any inquiries, please contact the secretariat.

Science Centre World Summit 2017(SCWS2017) Secretariat
(c/o Congress Corporation)
Kohsai-kaikan Bldg., 5-1 Kojimachi, Chiyoda-ku, Tokyo 102-8481
E-mail: secretariat@scws2017.org

Date:

To Dr. Mamoru Mohri
Chief Executive Director
Miraikan – the National Museum of Emerging Science and Innovation
Japan Science and Technology Agency

Company name:

Address:

Representative:

Seal/signature:

Application for Sponsorship

We agree with the purpose of the Science Centre World Summit 2017 to be held at Miraikan, the Japan Science and Technology Agency. We have read and consent to the conditions specified in the above Application Guide and the notes given in the attachment, and hereby apply for sponsorship as follows.

1. Sponsorship plan: _____ (No. of plans: _____)
Sponsorship fee (including consumption and other applicable taxes): _____

2. Method of payment:
We will pay the above fee in a lump sum by _____ (date).

3. Company data

Company	Company name			
	Address			
	Tel.			
Representative	Title			
	Name			
Contact person	Affiliation			
	Title			
	Name			
	Contact address			
	Tel.		Fax	
	E-mail			

Notes on applying for sponsorship of the Science Centre World Summit 2017

■ Production of advertisement

- Data of the advertisement is to be produced by the sponsor.
- English is an official language of SCWS2017 and handouts to be distributed to participants will also be in English. Accordingly, advertisements must be produced in English.
(Details about advertisements, such as the standard format of data and deadline for submission, will be given separately.)

■ Handling of sponsorship fees

- Congress Corporation undertakes the receipt and management of sponsorship fees and handling of inquiries under a service contract with Miraikan.

【Congress Corporation】

Headquarters : Kohsai-kaikan Bldg., 5-1 Kojimachi, Chiyoda-ku, Tokyo102-8481

President : Noriko Takeuchi

Persons in charge of the Secretariat of SCWS2017:

Suzuka Arai, Yoshitaka Ito

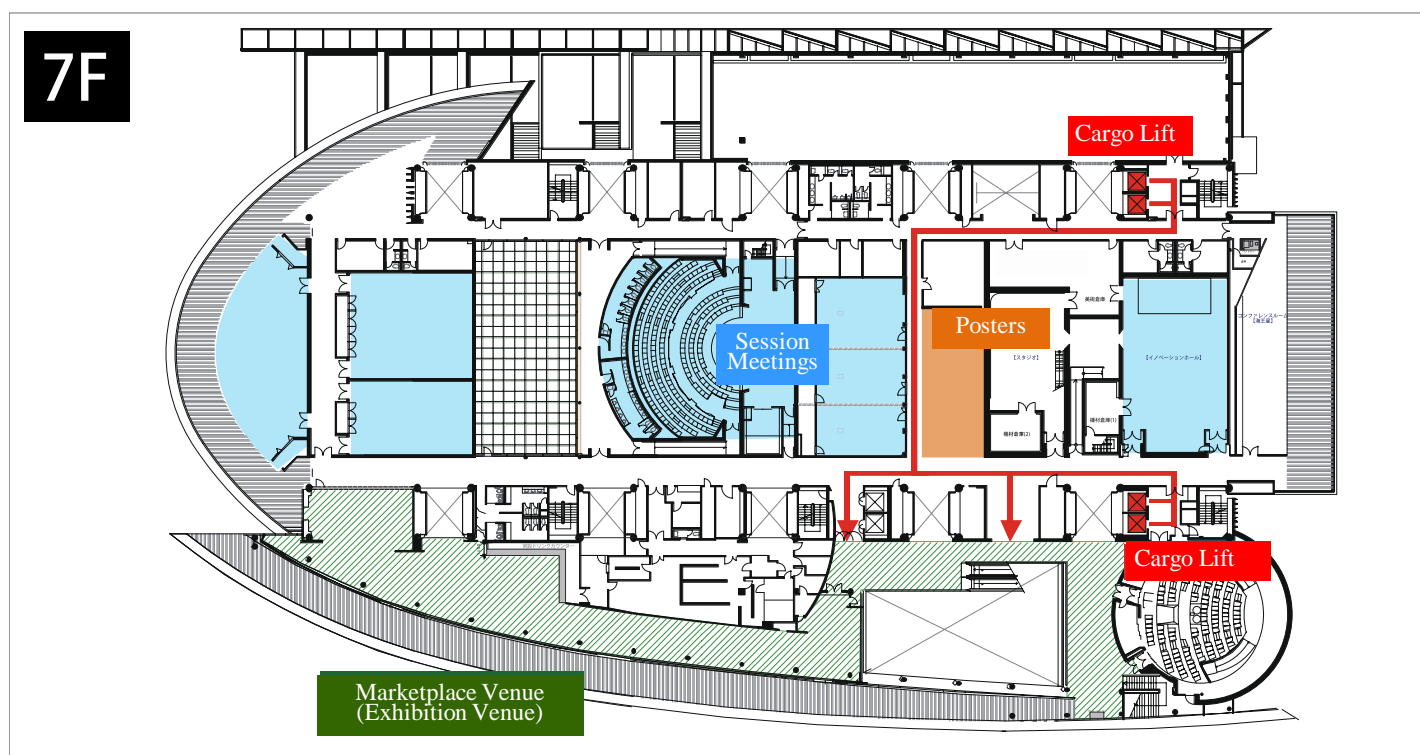
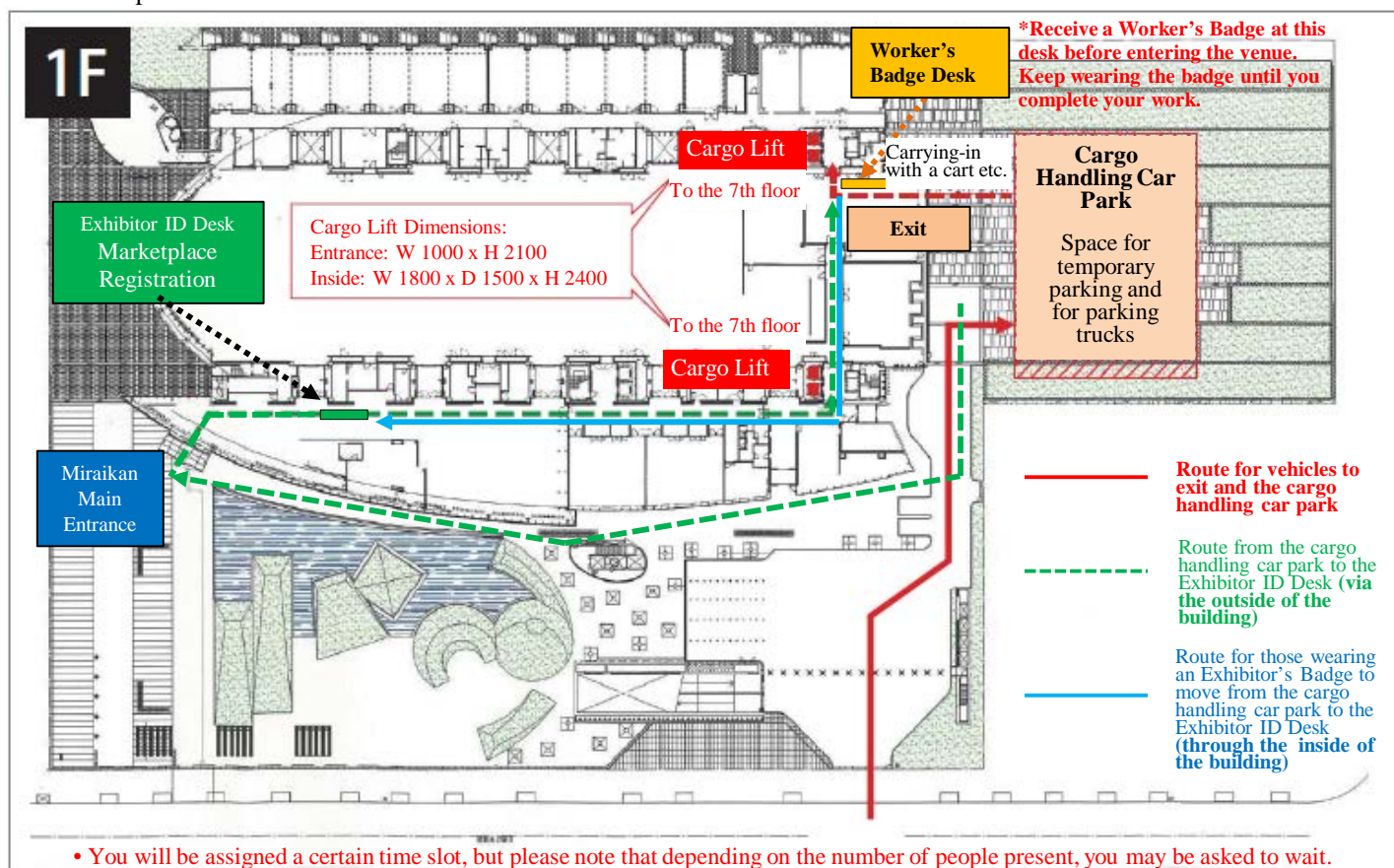
Email: secretariat@scws2017.org

- Sponsorship fees, once paid, cannot be refunded except where the organiser is rendered unable to provide sponsors with the privileges specified in the Application Guide including placement of advertisement (or their alternatives of equivalent value) due to cancellation or reduction of SCWS2017.
- After SCWS2017 is over, the secretariat will send a report on the summit meeting and its financial results to the sponsors.

❖ Carry in and out by vehicle

Worker's Badges and Exhibitor IDs are provided at different locations as shown below.

If you carry in exhibits and other items by vehicle and want to save time, instead of parking your vehicle at the cargo handling car park to go to the Exhibitor ID Desk to receive an ID before unloading, **you can receive a Worker's Badge from the desk in front of the entrance and, after unloading, receive an Exhibitor ID at the Exhibitor ID Desk.** The Worker's Badge can be returned at this point.



❖ **Map of the area surrounding the venue and the stations closest to the venue**



◆ **By Metropolitan Expressway**

- **From the centre of Tokyo**
Take Route 11 (Daiba Route). After crossing the Rainbow Bridge, exit the expressway at the Daiba IC, from which it takes about four minutes.
- **From Haneda/Yokohama**
Take the Bayshore Route. After passing through the Tokyo-ko Tunnel, exit the expressway at Rinkai Fukutoshin IC, from which it takes about four minutes.
- **From Chiba**
Take the Bayshore Route. From Ariake IC, it takes about seven minutes.

◇ **By prefectural road**

- **From the centre of Tokyo**
Take the prefectural road on the lower deck of the Rainbow Bridge. From the Rainbow Bridge Entrance Intersection, it takes about four minutes.



SCWS 2017

Connecting the World
for a Sustainable Future

Science Centre World Summit 2017 Marketplace

Exhibitor Manual

Wed. 15 – Fri. 17 November, 2017

National Museum of Emerging Science and Innovation (Miraikan)

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Attachments: List of documents to be submitted

- [Document 1] Exhibitor Registration Form
- [Document 2] Exhibits/Booth Layout Application Form
- [Document 3] Application Form for Electric Work
- [Document 4] Application Form for Rental Equipment
- [Document 5] Application Form for Rental Video Equipment

All Exhibitors

If required

1) Outline

- Title: Science Centre World Summit 2017 (SCWS2017)
- Theme: Connecting the World for a Sustainable Future
- Date: Wed. 15 – Fri. 17 Nov. 2017
**CEO Forum, for the leaders of Science Centres, will be held on Tue. 14 Nov.*
- Venue: National Museum of Emerging Science and Innovation (Miraikan)
2-3-6 Aomi, Koto-ku, Tokyo 135-0064
- Organiser: Japan Science and Technology Agency
National Museum of Emerging Science and Innovation (Miraikan)
- Co-organiser: Ministry of Education, Culture, Sports, Science and Technology –Japan
- Programme Organiser: ASPAC, ASTC, Ecsite, NAMES, RedPOP, SAASTEC
- Sponsors: Ajinomoto Co., Inc., KANEKA CORPORATION, Ricoh Company, Ltd.,
Kao Corporation, The Kavli Foundation,
Japan Greentea Co., Ltd., Emerson Japan Ltd., Otsuka Holdings Co., Ltd.,
Pharmacological Evaluation Institute of Japan
TOMY Company, Ltd., TOYOTA MOTOR CORPORATION (As of 6 Oct.)
- In association with: Cabinet Office, Government of Japan,
Ministry of Foreign Affairs of Japan,
Ministry of the Environment,
Science Council of Japan,
The Japan Society for the Promotion of Science,
The Japan Foundation,
KEIDANREN (Japan Business Federation)
American Association for the Advancement of Science (AAAS),
EuroScience



Miraikan

2) Access

- Venue: National Museum of Emerging Science and Innovation (Miraikan)
2-3-6 Aomi, Koto-ku, Tokyo 135-0064



● From Narita Airport

-Approx. 60 min. by car

-Approx. 100 min. by train

(Narita Sky Access Line) Narita Airport Terminal 1/ 2-3 = Simbashi = (Yurikamome Line) Telecom Center

(Skyliner) Narita Airport Terminal 1/ 2-3 = Nippori = (JR Keihin-Tōhoku Line) Shimbashi
= (Yurikamome Line) Telecom Center

For details: <http://www.keisei.co.jp/keisei/tetudou/skyliner/us/index.php>

-Approx. 80-100 min. by Airport Limousine

Narita Airport Terminal 1 South Wing / 1 North Wing / 2 / 3 = Grand Nikko Tokyo Odaiba (*5min. to Miraikan by car)

For details: <http://www.limousinebus.co.jp/en/>

● From the Tokyo International Airport (Haneda Airport)

-Approx. 20 min. by car

-Approx. 60 min. by train

(Keikyu Line) Haneda Airport International Terminal = Simbashi = (Yurikamome Line) Telecom Center

(Tokyo Monorail) Haneda Airport International Terminal = Tennozu Isle = (Rinkai Line) Tōkyō Teleport

-Approx. 30-40 min. by Airport Limousine

Haneda Airport International Terminal / 1 / 2 = Grand Nikko Tokyo Odaiba (*5min. to Miraikan by car)

For details: <http://www.limousinebus.co.jp/en/>



● Yurikamome Line

-4 min. walk from "Telecom Center" Sta.

-5 min. walk from "Fune-no-kagakukan" Sta.

● Rinkai Line

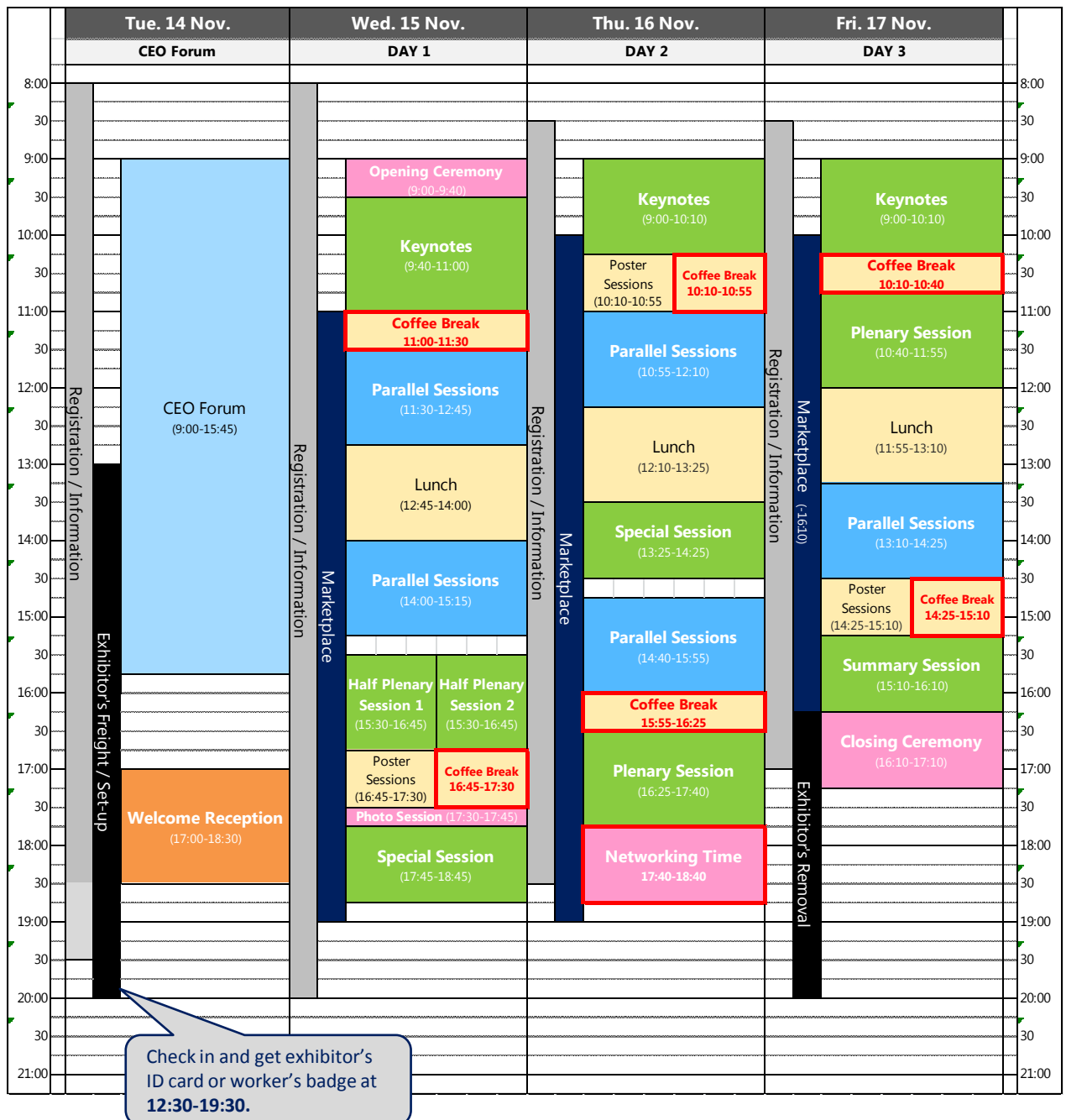
-15 min. walk from "Tōkyō Teleport" Sta.

Convenience Stores near Miraikan

- ★ 1 Daily YAMAZAKI
- ★ 2 FamilyMart
- ★ 3 LAWSON
- ★ 4 FamilyMart
- ★ 5 FamilyMart



3) Programme

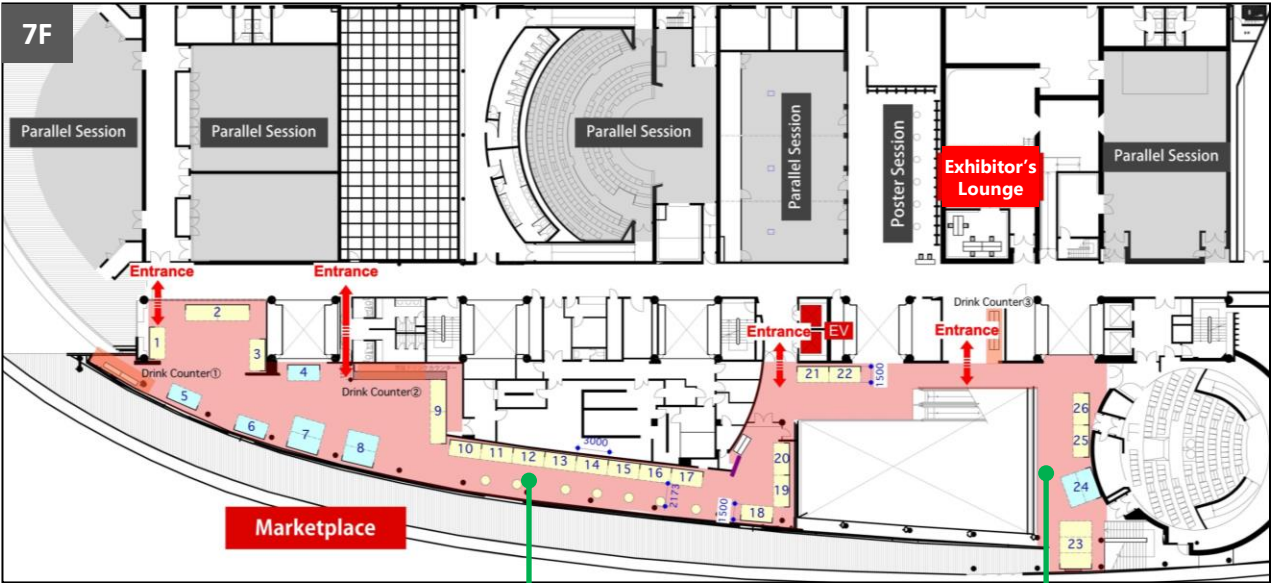


... Events at Maketplace

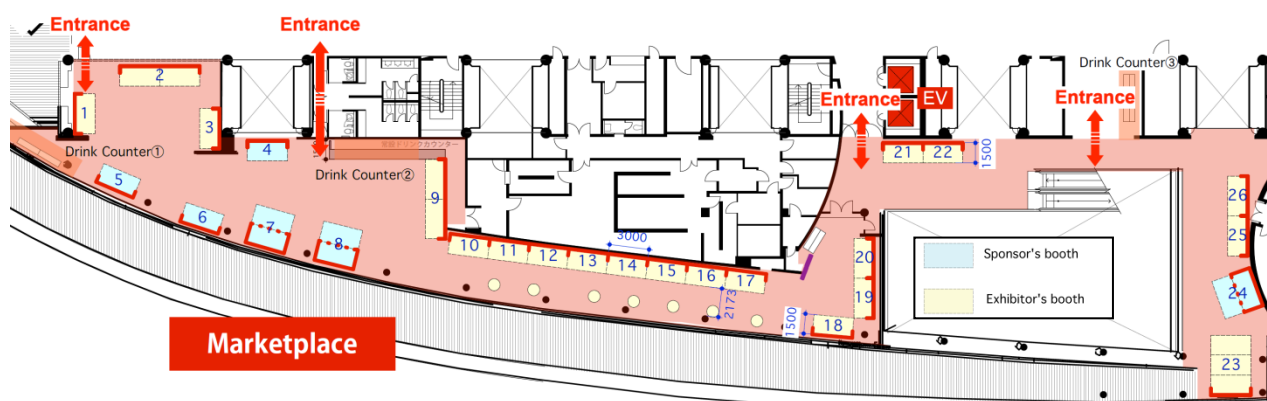
2. Marketplace

1) Floor map

■ Marketplace: 7F, Miraikan



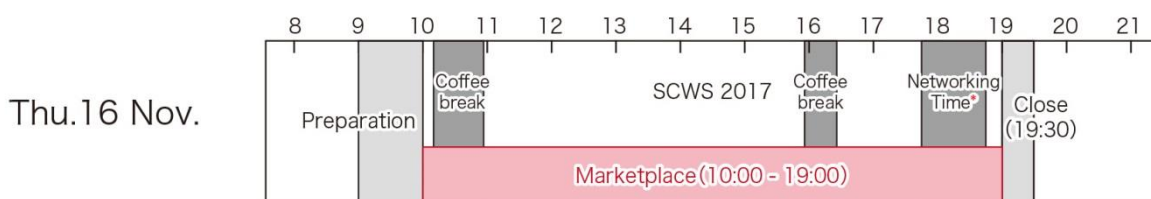
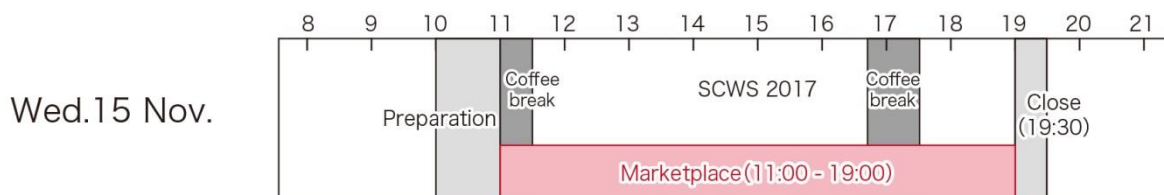
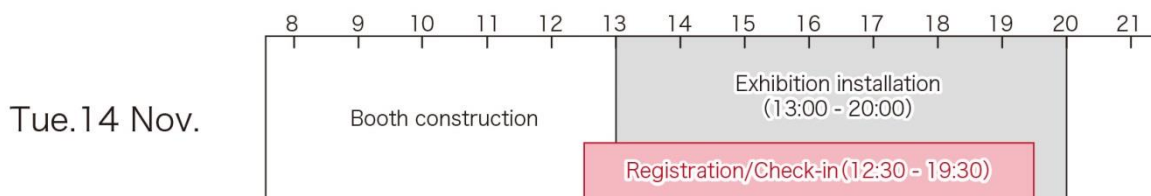
2) Booth location



■ Exhibitors List

No.	Exhibitor
1	GOTO INC
2	Sigong Tech Co., Ltd
3	AlfaVision, innovative technologies
4	Kao Corporation
5	Evonik
6	TOMY Company, Ltd.
7	Ajinomoto Co., Inc.
8	KANEKA CORPORATION
9	Research Center of Excellence in Indonesia's Universities
10	Museum of Science Boston USA
11	Exploratorium
12	Ontario Science Centre
13	Science North
14	Natural History Museum, London
15	Universcience
16	Museo del Desierto
17	ARTSCIENCE MUSEUM™ AT MARINA BAY SANDS®, SINGAPORE
18	Aurea exhibitions
19	AGT EUROEVENTS LTD
20	Hüttinger Interactive Exhibitions
21	Science Centre World Summit 2020
22	ASPAC 2018 Conference - NTSEC
23	Fulldome.pro
24	Ricoh Company, Ltd.
25	JEOL Ltd.
26	National Astronomical Observatory of Japan (NAOJ), National Institutes of Natural Sciences (NINS)

3) Schedule



- Coffee breaks and Networking Time are held at the Marketplace venue.

What to expect from Networking Time*:

The purpose of the Networking Time is to deepen ties between all participants, including sponsors and exhibitors.

Although light refreshments and beverages will be provided by the organisers of SCWS2017, exhibitors are also welcome to provide foods, beverages, novelties and other goods for enjoyable gatherings.

(Cooking is not allowed at the premise.)

3. Exhibitor's Checklist and Registration Deadline

- ❑ Receive exhibitor manuals <Fri. 6 Oct.>



- ❑ Submit Forms

- 1) Exhibitor Registration Form
- 2) Exhibits/Booth Layout Application Form
- 3) Application Form for Electric Work
- 4) Application Form for Rental Equipment
- 5) Application Form for Rental Video Equipment

Submission Deadline: Tue. 17 Oct.
(for all exhibitors)

Submission Deadline: Tue. 24 Oct.
(if required)



- ❑ Receive estimates/invoices <Mon. 30 Oct. – Thu. 2 Nov.>

Applicable to exhibitors applying for electric work or additional rental equipment using Form 3), 4) or 5) above.



- ❑ Payment deadline <Fri. 10 Nov.>

Applicable to exhibitors applying for electric work or additional rental equipment using Form 3), 4) or 5) above.



- ❑ Receive notification regarding vehicle entry/exit <early Nov.>

Information will be sent only to exhibitors who request for vehicle entry in Form 1) above, after the entry/exit schedules are finalised in accordance with vehicle information provided by each exhibitor.



- ❑ Deliver Marketplace goods <Wed. 1 – Sat. 11 Nov.>

Goods for the Marketplace can be delivered through the local forwarding company. Please check "4-1) Delivery and Storage of Goods" for the details.



- ❑ Check-in / setup <Tue. 14 Nov.>

Please collect your ID cards at the registration desk on the ground floor before starting setup. Please check "4. Freight / Setup" for the details.

- ❑ Marketplace Operation <Wed. 15 – Fri. 17 Nov.>

- ❑ Removal <Fri. 17 Nov.>

Please check "6. Removal / Exit" for the details.

Before the event

SCWS2017

1) Shipment of exhibition goods

This event, by default, is not exempt from import duty on exhibition goods.

Exhibitors who wish to have duty-free arrangement should obtain an ATA carnet in the country of dispatch.

■ Before the event

- If you plan to ship any of your exhibits goods from overseas, please consult the following local forwarding company by the end of October.

The local forwarding company is responsible for storing and delivering your exhibits goods.

- All of your exhibits goods should be delivered during **1-11 Nov. 2017**, through the forwarding company.

KSA International Inc.: Forwarding Company

Contact persons: Ohga (Ms.), Fujiwara (Mr.)

Contact: <E-mail> mice-logistics@ksa.co.jp

<Tel> +81-3-3505-8622

(Business hours: 9:30-17:30 JST, excluding Saturdays, Sundays and National holidays: 9 Oct., 3 Nov.)

Please give the following information on your e-mail/telephone correspondences

<E-mail title> SCWS2017 Marketplace –Delivery

-Your full name

-Your company/organisation's name

- The shipping cost is prepaid. Please make payment in advance after you receive the invoice.
- The forwarding company will ensure the delivery of your goods at Miraikan on Monday, 13 Nov., provided that they receive them by Saturday 11 Nov.

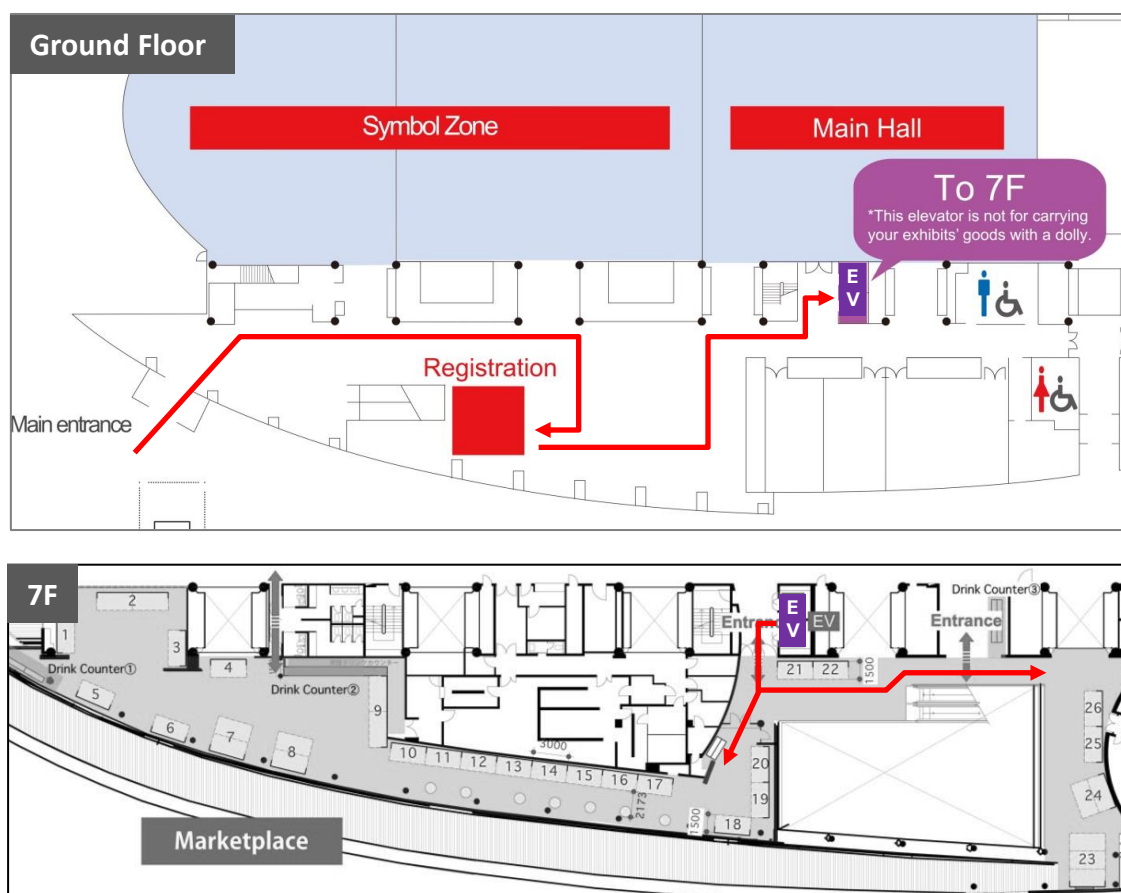
■ On the day of event

- The Secretariat will place your box at your booth on the day of setup, Monday, 14 Nov.

2) Check-in for exhibitors

Please make sure to collect your ID cards or worker's badge at the registration desk on the ground floor, before starting the installation.

Registration Hours (14 Nov.): 12:30-19:30



■ Exhibitor's ID card: ID card for your booth staffs during the event

- Pre-registration is required for the Exhibitor's ID card. Each exhibitor will be provided up to 5 ID cards.
- If you need multiple number of Exhibitor's ID cards, please make sure to register the staff's names in **"1) Exhibitor Registration Form."** Each staff name will be checked at the registration desk*.

*Exhibitor's ID card will be given to each registered person one by one.
One person cannot collect all ID cards for other members of your staff.

*If you have Exhibitor's ID cards, you do not have to apply for the worker's badge.

- Persons with Exhibitor's ID card only cannot enter the rooms other than the Marketplace room/space and the Exhibitor's lounge. Those who wish to attend the sessions, dinner or lunch must register for SCWS2017 as a participant*.

*The Closing Ceremony on 17 Nov. is open to the exhibitors.

■ **Worker's badge:** Badges for staff involved in setup/removal work

- This badge is for the staff involved only in the setup and removal of your booth. If you require the temporary badge, please inform us the number of badges you need on the **"1) Exhibitor Registration Form."**
- Temporary badges are valid only on the day of the setup, 13:00-20:00, 14 Nov., and the day of removal, 16:10-20:00, 17 Nov. Please remind the persons with worker's badges they cannot enter the premise other than the dates and time mentioned above. At the end of each day, temporary badges must be returned to the registration desk on the ground floor.
- Please make sure to wear the temporary badge all the time while you are in the premise.

3) Vehicle entry

■ **Before the event**

- Exhibitors who wish to enter by vehicle on the day of setup must inform about this in **"1) Exhibitor Registration Form."**
- The vehicle entry schedule, entry route and other details will be sent separately to each exhibitor who have applied for vehicle entry/exit in the "1) Exhibitor Registration Form."

■ **On the day of setup**

- Please make sure to read carefully the entry schedule sent to you beforehand to ensure an orderly entry in accordance with the plan. Please note that you may have to wait until the specified time if you arrive early.
- Please follow the instructions of our staff or security guards on site.
- Exhibitors are requested to arrange for their own carts/dollies for transportation of exhibits. (The Secretariat does not lend carts/dollies)
- Please note that the Secretariat may charge for repairs in case of any damage done to the facilities inside or outside the venue during entry.
- Please adhere to the appointed entry time because many vehicles are expected to arrive on the day of the setup.
- As a rule, carry-on exhibits will not be permitted outside of the entry/setup hours, 13:00-20:00, 14 Nov.

4) Setup

- Setup hours are given below. Please adhere to the specified hours.

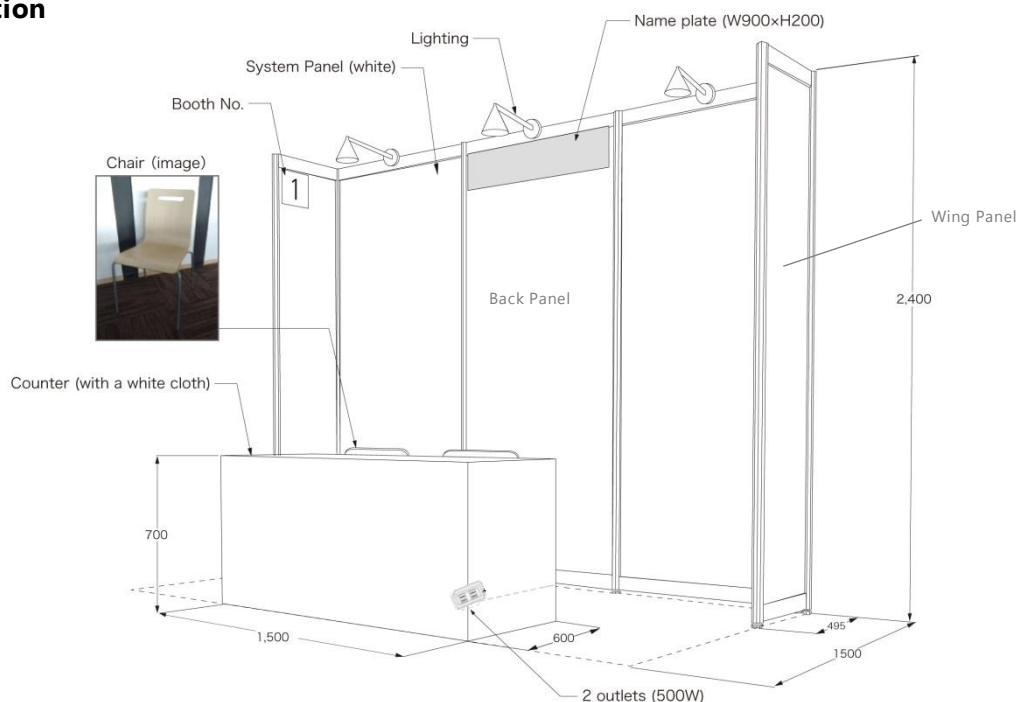
Setup Hours: 13:00-20:00*, Tue. 14 Nov. (*Everyone must leave at 20:00)

***Registration hours for ID cards or worker's badges are 12:30-19:30**

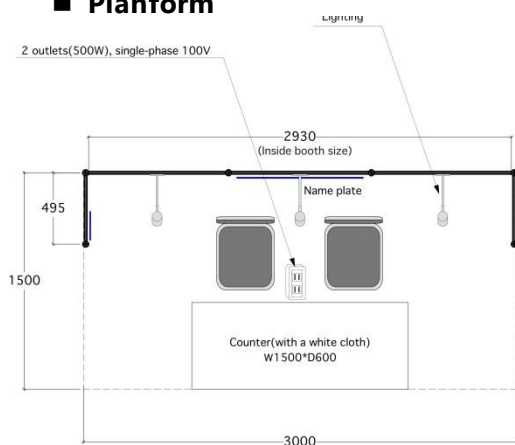
- Please consult the Secretariat beforehand if all work cannot be expected to be completed within the time mentioned above due to installation of special decorations or other reasons.
- The exhibits must not block the corridors or interfere with neighboring booths. The Secretariat may alert you if exhibits are found to be out of bounds.
- As a rule, please store any remaining materials inside your booth after the setup is completed. Please contact staff members if you need storage space for bulky materials that cannot be contained.
- Rubbish generated during setup can be disposed at the venue, excluding decoration materials; wood, flooring, electronic material, etc. If you wish to dispose of rubbish, please keep all of them together in the corridor in front of your booth after the setup is finished. Staff members of the Secretariat will collect them later on.

1) Basic equipment of a booth

■ Elevation



■ Planform



Basic Booth Specifications/ For one booth

- Back Panel: Width 2,930mm Height 2,400mm (colour: white)
- Wing Panel: Width 495mm Height 2,400mm (colour: white)
- Company Nameplate: Width 900mm Height 200mm (one per company, black and white print)
- Lighting: 3 spotlights
- Table: Width 1,500mm Depth 600mm Height 700mm (w/ a white cloth)
- Chairs: 2 stacking chairs
- Power: 500W outlet (single phase 100V, 2 outlets) *Per exhibitor

*Height limit for decorations and exhibits is 2,400mm above floor
*Flooring is not included.

- Exhibitors with plans for special decorations and find any of above specifications redundant are requested to inform about it beforehand in the **"1) Exhibitor Registration Form."**
- Please fill necessary information in **"2) Exhibits/Booth Layout Application Form"** providing the details regarding your exhibits (size, weight, numbers) and layout inside the booth.

2) Electric work

- Please submit **"3) Application Form for Electric Work"** in advance if you need additional power supply, lights or other equipment.
- An invoice will be issued and sent beforehand based on the details of the application form. Please make payment by the specified date and time.
- Please confirm with the Secretariat/local exhibition company if you require extra rental lighting equipment outside the basic equipment and fill in the necessary information in the 3) Application Form for Electric Work.
- Please inform beforehand using 3) Application Form for Electric Work if there are any preferred locations for installation of power outlets or lights.
- Power supply will be available during the following hours on each day.

13:00-20:30, Tue. 14 Nov.
10:00-19:30, Wed. 15 Nov.
09:00-19:30, Thu. 16 Nov.
09:00-20:30, Fri. 17 Nov.

Please consult Secretariat/local exhibition company in advance, if you need power supply outside of the above hours.

Notice

- The local electric power voltage is uniformly 100 volts, and the frequency is 50/60Hz in Tokyo.
- The type of plug/socket is "Type A" which has two parallel blades. Please bring your own plug adapter. The Secretariat will not provide one.)



3) Rental equipment / devices

- Please submit **"4) Application Form for Rental Equipment"** or **"5) Application Form for Rental Video Equipment"** if you need extra rental equipment or devices.
- An invoice will be issued and sent beforehand based on the details of the application form. Please make your payment by the specified date and time.
- For rental equipment not specified in the 4) Application Form for Rental Equipment and 5) Application Form for Rental Video Equipment, please consult the Secretariat/local exhibition company.

4) Warnings about decoration and contents

■ Warnings about decorations

- For special decorations, please inform us about it beforehand using “**1) Exhibitor Registration Form**”.
- In case of special decoration, the installations or decoration by the exhibitor, exhibitors are free to decide their exhibition plan. However, there are certain restrictions in line with the structure and facilities of the exhibition venue and the Fire Service Act. Please follow the precautions given below.

Warnings

- ❑ Please use noncombustible or quasi-noncombustible materials for decoration. In particular, carpets, curtains, decorative fabrics, plywood used for exhibitions and similar other things must be made fireproof (fireproof items). Please make sure to attach a “fireproof label” on fireproofed items in accordance with the fireproof labeling system of the Fire Service Act.
- ❑ Structures with roofs or two-story structures are not permitted.
- ❑ Direct work on the floor, ceiling, beams, doors, movable partitions, sashes, glass, ducts, air inlet outlet pipes, wires, lighting equipment and boards of the facility is prohibited.
The following work is strictly prohibited.
 - (1) Chipping, drilling, gas cutting
 - (2) Hammering of concrete nails or dry pit tacks
 - (3) Direct painting
 - (4) Pasting with adhesive
 - (5) Direct use of cutter
 - (6) Using signboards as a support
 - (7) Use of tape or glue on the floor.
If you wish to paste a piece of carpet, make sure to use a protective plywood between the floor and the carpet.
 - (8) Any other work or use of any decorative material or equipment that could damage or spoil the facilities or equipment at the site.
- ❑ Direct construction is prohibited outside the marketplace premise, such as lobby, cargo handling spaces, vehicle passage area or any other area in the vicinity.
- ❑ In principle, do not build ceilings or roofs on booths because they could obstruct the functioning of fire protection equipment, such as sprinklers. Exhibitors who must build ceilings or roofs for the purpose of their exhibition are requested to inquire with the Secretariat beforehand.
- ❑ Do not block corridors around the exhibition booth with signboards, lights, catalog stands and other items.
- ❑ Do not block the emergency light or emergency exit signs.
- ❑ Please provide protective measures when using water in the booth to avoid excessive spilling. Moreover, please consult the Secretariat in advance in case you need to use water.

- Please use English language labels, signs and description on the exhibits and decorations.

■ Using AV equipment

- Please refrain from presentations or demonstrations using speakers and microphone because this can disturb other exhibitors.
- If you need to use AV equipment for videos or BGM, please keep the volume low so that it does not disturb other exhibitors or visitors and does not hamper announcements and evacuation guidance in case of an emergency.

■ About performances

- Any performance that disturbs other booths or visitors is prohibited. This includes performances involving extreme lighting, strong odor, smoke, etc.
- Organisers or the Secretariat may control or suspend any activities of the exhibitors that are deemed to disturb visitors or neighboring booths.
- Drinking alcohol under the age of 20 is prohibited by law. Please refrain from serving alcohol to the persons whose age are under 20 at the Networking Time.

■ Bringing dangerous objects

- Under the fire prevention ordinance, the following items may not be brought in or used at the venue.

- (1) Use of Open flame (facilities producing a flame or sparks, electric heater/kerosene heater, etc. exposing nichrome wires, etc.)
- (2) Bringing liquefied petroleum gas/high-pressure gas
- (3) Bringing dangerous objects (gasoline/kerosene/machine oils/compressor oils, etc.)
- (4) Bringing dangerous items (nuclear fuel material/gunpowder types)

*Please consult the Secretariat beforehand for any other item that may be considered dangerous.

■ Management of exhibits and waivers

- As a security measure for electric equipment, do not place anything behind the booth (along the walls of the site).
- Do not place exhibits in the corridor. This includes signboards, lighting equipment, catalog stands and other items.
- Exhibitors shall be responsible for the safety of the exhibits. The organiser will not be liable for any compensation in case of theft, loss or damage. Exhibitors are requested to consider measures such as insurance as required.
- For security reasons, please do not leave your valuables at the booth.

1) Removal

- Removal hours are given below. Please adhere to the specified hours.

Removal Hours: 16:10-20:00*, Fri. 17 Nov. (*Everyone must leave at 20:00)

- Please consult the Secretariat beforehand if all work cannot be expected to be completed within the time mentioned above due to the dismantling of special decorations or other reasons.
- All exhibitors are requested to clear everything and clean up the booths. Rubbish generated during removal can be disposed at the venue, except for decoration material such as wood, flooring, electronic material, etc. If you wish to dispose of rubbish, please pile them together in the corridor in front of your booth after the removal is finished.

2) Vehicle exit

■ Before the event

- The vehicle exit schedule, exit route and other details will be sent separately to each exhibitor who have applied for vehicle entry/exit in the "1) Exhibitor Registration Form."

■ On the day of removal

- Please make sure to read carefully the exit schedule sent to you beforehand to ensure an orderly exit in accordance with the plan. Please note that you may have to wait until the specified time if you arrive early.
- Booth removal starts from 16:10 Fri. 17 Nov. However, please note that it may take time before you can make an exit.
- Please follow the instructions of our staff or security guards on site.
- Exhibitors are requested to arrange for their own carts/dollies for transportation of exhibits. (The Secretariat does not lend carts/dollies)
- Please note that the Secretariat may charge for repairs in case of any damage done to the facilities inside or outside the venue during removal.
- As a rule, carrying-out of exhibits will not be permitted outside of the removal hours, 16:10-20:00, 17 Nov.

3) Return shipment of exhibition goods

■ After the event

- The forwarding company, KSA International Inc., will open a desk in the Marketplace during the removal time, 16:10-20:00, Friday, 17 Nov., where you can make shipping instructions.
- If you plan to ship any of your exhibits goods overseas, please consult the staff members from KSA International Inc.. They will accept your boxes for delivery.

7. Other Information

- The facility is open during the following hours.

12:30-20:00, Tue. 14 Nov.
10:00-19:30, Wed. 15 Nov.
09:00-19:30, Thu. 16 Nov.
09:00-20:00, Fri. 17 Nov.

Special Offers

Exhibitors can enjoy the “Permanent Exhibition^{*}” during 15-19 Nov. for free of charge. Please show your exhibitor’s ID card to 3F Ticket Counter and enjoy the exhibition.

*Open hours of the Permanent Exhibition

11:00-17:45, 15 Nov.

10:00-17:00, 16 Nov.

10:00-17:00, 17 Nov.

- Handouts

- Each exhibitor will be handed a welcome package which includes a pocket programme guide. Please check the programme guide for the events of participants.

- Lunch / Dinner

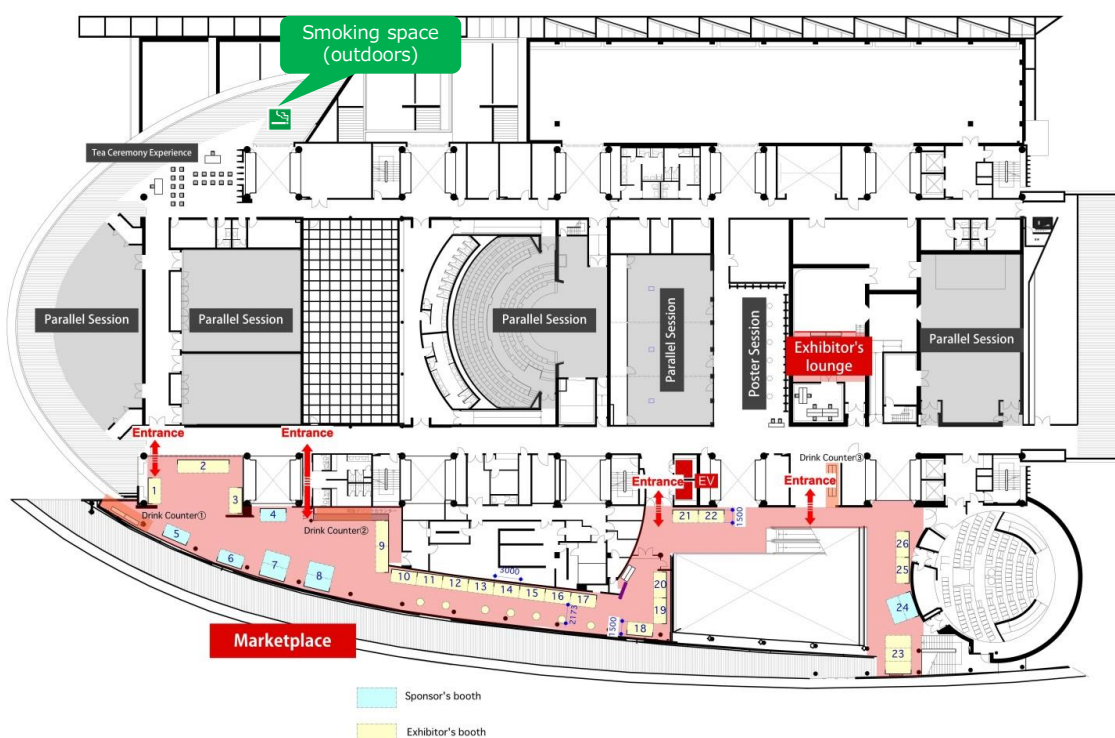
- Exhibitors are requested to arrange for their own lunch and dinner themselves. The Exhibitors’ lounge on 7F, as per the map below, may be used freely for eating, drinking and relaxing. Please note that the available seats may be limited.

- Internet

- The dedicated Wi-Fi service for the SCWS2017 event may be used free of charge in the Marketplace area. Please check the Wi-Fi ID and the password on the day of the event.

- Other Precautions

- Smoking is prohibited in the facility, except at the smoking place on 7F, as per the map below.
- Photographs can be taken during the event and published on the SCWS2017 website or other reports.



◆ For the Marketplace or SCWS2017 in general:

Congress Corporation: Secretariat for SCWS2017

Contact persons: Ms. Noriko Yoshiura, Mr. Nao Yagi

Contact: <E-mail> secretariat@scws2017.org

<Tel> +81-3-3263-2377 <Fax> +81-3-5216-3115

Business hours: Weekdays 10:00-18:00. Closed on Saturdays, Sundays and National holidays: 9 Oct., 3 Nov.

*Contact on the day of the event will be notified later on.

◆ For shipment:

KSA International Inc.: Forwarding Company

Contact persons: Ms. Hazuki Ohga, Mr. Kouki Fujiwara

Contact: <E-mail> mice-logistics@ksa.co.jp

<Tel> +81-3-3505-8622

Business hours: Weekdays 9:30-17:30. Closed on Saturdays, Sundays and National holidays: 9 Oct., 3 Nov.

◆ For rental equipment/devices and electric work:

accost corporation: Exhibition service company

Contact persons: Mr. Makoto Kabara

Contact: <E-mail> convention03@accost.co.jp

<Fax> +81-3-5259-7972

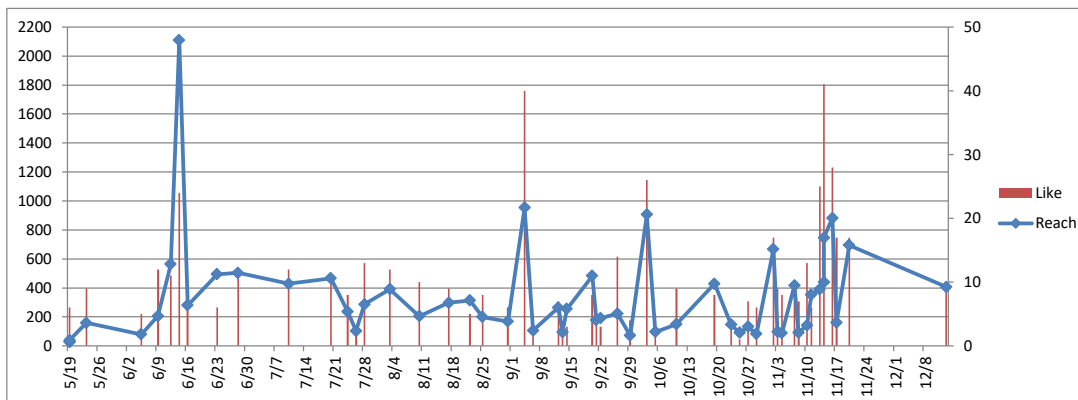
Business hours: Weekdays 10:00-18:00. Closed on Saturdays, Sundays and public holidays: 9 Oct., 3 Nov.

Facebook posts

No.	Post date	Content	Attachments	Links	Reach (number of views)	Likes	Posted by
1	5/19 Fri.	General overview of SCWS	Leaflet cover	SCWS website	28	6	Maeda
2	5/19 Fri.	Registration open	–	SCWS website	27	4	Maeda
3	5/19 Fri.	General description of Miraikan - The National Museum of Emerging Science and Innovation	Photographs of the exterior and exhibition	Website of Miraikan - The National Museum of Emerging Science and Innovation	39	3	Okayama
4	5/23 Tue.	Introducing the plenary speakers	–	SCWS website	158	9	Chihana
5	6/5 Mon.	Webpage updated	–	SCWS website	80	5	Maeda
6	6/9 Fri.	Introducing the IPC	IPC group photo	–	206	12	Okayama
7	6/12 Mon.	"Airvase"@Ecsite booth	"Airvase"	–	564	11	Okayama
8	6/14 Wed.	Introducing the SCWS short movie	SCWS short movie	–	2110	24	Okayama
9	6/16 Fri.	Ecsite booth	Ecsite booth	–	280	8	Okayama
10	6/23 Fri.	Permanent exhibits updated	"A Hands-On Model of the Internet 2017," "Alter - A life-like entity"	Website of Miraikan - The National Museum of Emerging Science and Innovation	494	6	Maeda
11	6/28 Wed.	CEO Forum	CEO Forum at SCWS 2014	–	504	12	Okayama
12	7/10 Mon.	Programme now available	Logo (side)	SCWS website	429	12	Maeda
13	7/20 Thu.	Temporary Exhibition "Beautiful Rice"	Related images	Website of Miraikan - The National Museum of Emerging Science and Innovation	466	11	Okayama
14	7/24 Mon.	Tokyo Protocol	Logos of six regional science centre networks	Tokyo Protocol page	235	8	Maeda
15	7/26 Wed.	Introducing the SDGs	–	UN SDGs page YouTube PPAP video	103	3	Okayama
16	7/28 Fri.	SDGs-related event (PHE)	PHE logo, image of Geo-Cosmos showing PHE	PHE page on website of Miraikan - The National Museum of Emerging Science and Innovation	287	13	Okayama
17	8/3 Thu.	SDGs-related exhibit ("Backward from the Future")	Photograph of the "Backward from the Future" exhibit	Website of Miraikan - The National Museum of Emerging Science and Innovation	391	12	Okayama
18	8/10 Thu.	Introducing Tokyo	Video provided by JNTO	JNTO page	204	10	Okayama
19	8/17 Wed.	Introducing the SCs	Photographs of SCs at work	Website of Miraikan - The National Museum of Emerging Science and Innovation	298	9	Okayama
20	8/22 Tue.	Introducing the Research Area	Research Area	Website of Miraikan - The National Museum of Emerging Science and Innovation	313	5	Okayama
21	8/25 Fri.	Numbers of registrations and followers	–	–	199	8	Okayama
22	8/31 Thu.	International Science Center & Science Museum Day	–	Website of International Science Center & Science Museum Day	169	6	Okayama
23	9/4 Mon.	Two months to go Introducing the members of the Secretariat	Photograph of members of the Secretariat	–	953	40	Okayama
24	9/6 Wed.	Plenary Session Day 3	Photographs of the three speakers	SCWS website	106	5	Chihana
25	9/12 Tue.	Half Plenary Day 1 (Graham)	Photographs of the four speakers	SCWS website	264	7	Chihana
26	9/13 Wed.	Half Plenary Day 1 (Walter)	Photographs of the three speakers	SCWS website	94	3	Chihana
27	9/14 Thu.	Activities in Miraikan - The National Museum of Emerging Science and Innovation	Photograph of a mini-talk by a SC with Geo-Cosmos in the background	Press release on SDGs-related activity	255	3	Okayama
28	9/20 Wed.	Keynote Day 2 (Bruktawit Tigabu)	Photograph of Ms. Tigabu	SCWS website	483	8	Chihana

29	9/21	Thu.	Article published in Ecsite web magazine	—	Ecsite Spokes	177	5	Okayama
30	9/22	Fri.	Fellowship	—	SCWS website	191	3	Okayama
31	9/26	Tue.	Social programme Introducing HAPPO-EN	Publicity photographs of an event	HAPPO-EN website	223	14	Okayama

32	9/29	Fri.	Introducing the Poster Sessions	—	—	71	4	Okayama
33	10/3	Tue.	Website redesigned	—	SCWS website	906	26	Okayama
34	10/5	Thu.	Introducing the Marketplace	—	SCWS website	96	5	Okayama
35	10/10	Tue.	One month to go and Advance Rate deadline approaching	—	SCWS website	149	9	Okayama
36	10/19	Thu.	Keynote Speech Day 1	—	SCWS website Website of the National Art Center, Tokyo	429	8	Okayama
37	10/23	Mon.	Keynote Speech Day 2	Photograph of Prof. Gordon McBean	SCWS website	146	3	Okayama
38	10/25	Wed.	Registration deadline	—	SCWS website	91	1	Okayama
39	10/27	Fri.	Plenary Session Day 2	Photographs of the five speakers	SCWS website	132	7	Okayama
40	10/29	Sun.	Keynote Speech Day 3	Photograph of Lord Krebs	SCWS website	82	6	Okayama
41	11/2	Thu.	Keynote Session Day 1	Photographs of the three speakers	SCWS website	668	17	Okayama
42	11/3	Fri.	Introducing the app	Photograph of app screen	App download page on the App Store	96	9	Okayama
43	11/4	Sat.	Keynote Session Day 3	Photographs of the three speakers	SCWS website	87	8	Okayama
44	11/7	Tue.	Passed 300 followers and weekly weather forecast	—	—	418	8	Okayama
45	11/8	Wed.	Topics	—	SCWS website	91	7	Okayama
46	11/10	Fri.	Weekly weather forecast and autumn foliage	Exterior of Miraikan -The National Museum of Emerging Science and Innovation	—	142	13	Okayama
47	11/11	Sat.	Temporary Exhibition "Beautiful Rice" opened	"Beautiful Rice" key visuals	Website of Miraikan -The National Museum of Emerging Science and Innovation	352	6	Okayama
48	11/13	Mon.	Description of pre-opening onsite scene	Photograph of setting up scene	—	390	25	Okayama
49	11/14	Tue.	End of Day 0 and activities in Miraikan -The National Museum of Emerging Science and Innovation	Photograph of explanatory panel of disaster on 11 March	—	438	12	Okayama
50	11/14	Tue.	Introducing the Gala Dinner venue	Gala Dinner venue	—	746	41	Okayama
51	11/16	Thu.	Photographs of Day 1	Commemorative photographs	—	883	28	Okayama
52	11/17	Fri.	Photographs of Day 2	Commemorative photographs	—	160	17	Okayama
53	11/20	Mon.	Photographs of Day 3	Commemorative photographs	—	695	17	Okayama
54	12/13	Wed.	Visual archive now available	—	SCWS website	407	10	Okayama
						Page followers	392	352



To Members of the Press

April 1, 2015 Miraikan

Science Centre World Summit 2017 to be Held in Tokyo!

Hosted by Miraikan

November 14 – 17 2017

The National Museum of Emerging Science and Innovation (Miraikan) (Chief Executive Director: Mamoru Mohri) will host the Science Centre World Summit (SCWS) in November 2017. This summit is an international conference of science centre networks around the world (*annotation reference below), held once every three years in a different region. The first summit in 2014 was held at Technopolis®, a science centre in Belgium, representing Europe, and the second will be held in 2017 at Miraikan, representing the Asia-Pacific region.

The theme for SCWS2017 is “Connecting the World for a Sustainable Future.” Focusing on the “connections” between the multitude of lifeforms on Earth and ourselves, the goal of the summit is to reexamine the relations between human activities and issues facing humanity, such as climate change and loss of biodiversity. Miraikan is acting as host in cooperation with other science centres in the Asia-Pacific region. An international foundation will be established to develop innovative and long-term strategies based on new perspectives to deal with issues on a global scale, and the results will be presented to the world. SCWS2017 will create opportunities to discuss how to preserve the bountiful Earth of today for the future.

<What is the Science Centre World Summit (SCWS)?>

The SCWS is successor to the Science Centre World Congress, which was convened six times starting in 1996. In 2014 the congress was renamed to the Science Centre World Summit with a new goal of spreading the results of information exchange and increased cooperation between science centres and those outside the science centre community. The SCWS is more than just a place for science centres to exchange information, it's also a place for strategic discussions on the new role of science centres in society. Science centre representatives will broaden discussions beyond scientists and educators to include politicians, members of industry, and local communities. By collaborating with stakeholders from every aspect of society, participants will work to build cooperation towards new solutions to solve global issues.

*Science Centre Networks around the World

There are regional science centre networks throughout the world. Science centres in a network exchange information and cooperate with each other to improve efficiency.

- **ASPAC** (Asia Pacific Network of Science and Technology Centres)
- **ASTC** (Association of Science-Technology Centers)
- **Ecsite** (European Network of Science Centres and Museums)
- **NAMES** (North Africa and Middle East Science centers network)
- **RedPOP** (Network for the Popularization of Science and Technology in Latin America and the Caribbean)
- **SAASTEC** (South African Association of Science and Technology Centres)



<SCWS2017 Logo mark>

[Overview]

Title: Science Centre World Summit 2017
 Date: November 14 (Tue) to 17 (Fri), 2017
 Location: National Museum of Emerging Science and Innovation (Address: 2-3-6 Aomi, Koto, Tokyo)
 Audience: People and organizations involved with science centres, politics, industry, research, education, and other fields from around the world
 Attendance: Approximately 500 attendees (planned)
 Host: National Museum of Emerging Science and Innovation
 Details: URL: <http://scws2017.org>

Inquiries from general visitors:	For information on this release, please contact:
National Museum of Emerging Science and Innovation (Miraikan) 2-3-6 Aomi, Koto-ku, Tokyo 135-0064, Japan TEL: +81-3-3570-9151 / FAX: +81-3-3570-9150 URL: http://www.miraikan.jst.go.jp/en/	Public Relation Section, Miraikan TEL: +81-3-3570-9192 / FAX: +81-3-3570-9150 EMAIL: press@miraikan.jst.go.jp

For Immediate Attention of the Media

July 20, 2017

Miraikan – The National Museum of Emerging Science and Innovation

Global meeting of leaders steering science centers around the world,
to be held in Asia for the first time

Science Centre World Summit 2017 (SCWS 2017)

Key sessions, invited speakers, and a parallel event
from November 15 – 17 confirmed

Miraikan - the National Museum of Emerging Science and Innovation (Miraikan; Mamoru Mohri, Chief Executive Director) has confirmed the key sessions, invited speakers, as well as the parallel event that will be held during the Science Centre World Summit 2017 (SCWS 2017) to be held in Asia for the first time, for three days from November 15 to 17 (Wednesday to Friday), 2017.

The Science Centre World Summit (SCWS) is a global meeting convened once every three years, bringing together many leaders who are steering science centres around the world, as well as delegates from the education, policymaking, and corporate sectors. At the summit, delegates discuss and put forth recommendations about civic involvement in science and technology, as well as the role that science centers should play amidst a rapidly changing society.

The Science Centre World Summit 2017 (SCWS 2017) is organized around the central theme of “Connecting the World for a Sustainable Future.” The discussions, undertaken in various sessions, will cover a wide range of regional to global issues concerning the strategy that science centers can take to transform and progress toward a new model in cooperation with organizations from other sectors, and to contribute to the realization of a sustainable society. Furthermore, as science centers are positioned as an important platform toward the attainment of the Sustainable Development Goals (SDGs) adopted by the United Nations in 2015, this Summit aims to consider ways of deepening understanding and generating creativity as an approach to problem-solving.

World-leading experts have been invited to speak at the Summit, including Mr. Tadao Ando, an architect who is active worldwide, Professor Shinya Yamanaka, recipient of the Nobel Prize for Physiology or Medicine, Professor Johan Rockström, an internationally recognized scientist in the field of sustainability research, and Lord Krebs Kt, MA, DPhil, FRS, FMedSci, Hon DSc, who worked on resolving BSE issues as the first Chairman of the UK Food Standards Agency.

In conjunction with the Summit, a temporary exhibition titled “Beautiful Rice” will be held from November 11, 2017 (Saturday). This exhibition aims to disseminate information widely about science and technology as a means for building sustainable agriculture and in turn, sustainable societies, through the perspective of rice, which is the basis of food culture in Asia.

To bring about the realization of a sustainable society, it is vital for individuals to change and acquire new habits and practices. Through the discussions held at this Summit, recommendations are put forth on what science centers can do to connect personal lives with science in concrete ways and to promote change, as well as on the roles that science centers can fulfill to uncover new relationships between individuals and science and technology.

Overview

Official name:	Science Centre World Summit 2017 (SCWS2017)
Period:	November 15 (Wed.) to 17 (Fri.), 2017
Venue:	Miraikan (2-3-6 Aomi, Koto-ku, Tokyo, Japan)
Special webpage:	https://scws2017.org/
Organiser	Miraikan – The National Museum of Emerging Science and Innovation
Co-organiser:	Ministry of Education, Culture, Sports, Science and Technology -Japan
Programme Organiser:	ASPAC, ASTC, Ecsite, NAMES, RedPOP, SAASTEC
Sponsors:	Ajinomoto Co., Inc., Kaneka Corporation, Ricoh Company, Ltd., Kao Corporation, Japan Greentea Co., Ltd.
In association with:	Cabinet Office, Government of Japan, Ministry of Foreign Affairs of Japan, Science Council of Japan, The Japan Society for the Promotion of Science, The Japan Foundation, KEIDANREN (Japan Business Federation) American Association for the Advancement of Science (AAAS), EuroScience

*Interested participants are required to register in advance and pay an attendance fee. (Please refer to the website for details.)

Inquiries about Miraikan	Inquiries about this press release
Miraikan – The National Museum of Emerging Science and Innovation 2-3-6 Aomi, Koto-ku, Tokyo 135-0064 TEL: 03-3570-9151 FAX: 03-3570-9150 URL: http://www.miraikan.jst.go.jp/en/	Public Relations section, Miraikan – The National Museum of Emerging Science and Innovation e-mail: press@miraikan.jst.go.jp TEL: 03-3570-9192 FAX: 03-3570-9150

<SCWS 2017: Key sessions>

More than 40 sessions will be held covering three topics, and the audience will also be involved in discussions. (The following is only an excerpt of the sessions. Please refer to the website for details on all sessions.)

1. Global Sustainability

Global Sustainability ; what is the plan for science centre action
Systems Thinking for Sustainability
Visualizing STEAM Data in Support of Smart Decision Making
Awareness to Actions! - Global Changes and Future Earth
Communicating Natural Disasters, Man-made Hazards and Risks

2. Co-design for Transformation

Connecting and Empowering Youth
Communicating Big Science
Co-design in Science and Technology
Open Doors for Global Sustainable Activities: Collaboration Between Industry and Science Centres
Science Centres for 2026 and Beyond.

3. Personal Engagement with Science

Collective Engagement: How innovation and partnerships are reshaping engagement
Developing Science Centres in Africa for Equality of Opportunity and Global Sustainability
Science, Politics and Social Media
When Do Museums Make a Difference?
Connecting Socially and Educationally Vulnerable People with Science and Education

In addition to the abovementioned topics, sessions will also be held on Sustainable Development Goals (SDGs).

Gender Equality and Reduced Inequalities
How Science Centres Contribute to the Sustainable Future of Cities
Partnerships for the United Nations Sustainable Development Goals

<SCWS 2017: Key invited speakers>

World-leading experts from sectors including architecture, life sciences, global environment, and food, will present talks at the Summit. Based on their respective perspectives and experiences, the invited speakers will give clues to the three-day discussions, and share their expectations to science centers.

Mr. Tadao Ando: Architect, Professor Emeritus, The University of Tokyo

Professor Gordon McBean: President, The International Council for Science (ICSU)

Professor Johan Rockström: Director of the Stockholm Resilience Centre / Professor of Water Systems and Global Sustainability at Stockholm University

HRH Princess Sumaya bint El Hassan: President, The Royal Scientific Society, Jordan

Lord Krebs Kt, MA, DPhil, FRS, FMedSci, Hon DSc: Honorary Fellow and Former Principal, Jesus College, University of Oxford

Mr. Pavan Sukhdev: UNEP Goodwill Ambassador, The Founding Trustee of Green Indian States Trust (GIST), Founder & CEO of GIST Advisory, Associate Fellow of Davenport College, Yale University

Dr. Thomas E. Lovejoy: Professor, Environmental Science and Policy, George Mason University

Prof. Shinya Yamanaka: Director and Professor, Center for iPS Cell Research and Application, Kyoto University (CiRA)

*The speakers listed above are the key invited speakers confirmed at the current point in time. The website will be updated as and when other speakers are confirmed.

<SCWS 2017: Parallel event>

At the first Science Centre World Summit 2017 (SCWS 2017) convened in Asia, a temporary exhibition on “rice,” which underpins the food culture of Japan and other parts of Asia, will be held in conjunction with the Summit. This exhibition aims to disseminate information widely about science and technology as a means for building sustainable agriculture and in turn, sustainable societies.

<SCWS 2017: Parallel event>

Temporary Exhibition “Beautiful Rice”

Overview

Exhibition Period	November 11 (Sat), 2017 – January 8 (Mon), 2018 (end date TBD)
Open	10:00-17:00
Venue	1F, Communication Lobby, Miraikan
Closed	Tuesday (open on national holidays), November 15 and New Year holiday (December 28 to January 1)
Admission fee	Free of charge
Organizer	Miraikan - The National Museum of Emerging Science and Innovation
Supervisor	SATO Yo-Ichiro, Executive Director of National Institutes for the Humanities

What can we do now in order to continue eating delicious rice tomorrow, in the next 100, and in the next 1,000 years? This exhibition explores the choices that we should make, and how we should use cutting-edge science and technology, taking into consideration the characteristics of the “Tsunagari system” (= A cyclical system that integrates animals, plants, and human beings), which has been developed over several thousands of years in rice paddies across Asia, and of modern agriculture with its high levels of productivity. This temporary exhibition embodies our hopes for lasting and sustained abundance of food for the people on Earth, and seeks to sow the seeds for the future.

<Exhibition structure>

The ecosystem of “Tsunagari”

The spirit of achieving sustained rice production without depleting natural resources lives and breathes in diverse practices, food, and faith, which are rooted in the climate of the rice cultivation areas in various parts of Asia. This section introduces specific examples of human wisdom and activities, based on an understanding of the cyclical system that integrates human, animals, and plants through rice paddies as the “Tsunagari system”.

Lost “Tsunagari”

Modern agriculture brought about the realization of a level of productivity that can sustain larger populations, through means such as farm mechanization and the effective utilization of chemical fertilizers. This section focuses on a recognition of the current situation, including issues such as over-dependence on chemical fertilizers, and the deterioration of biodiversity in rice paddies.

Re-design “Tsunagari”

This section explores the direction of sustainable food production in the 21st century, in consideration of the structure of modern society with advancements in urbanization alongside with rising global population. It focuses on introductions to science and technology and approaches for reaching a breakthrough, from the perspective of symbiosis between Earth and human beings.

What kind of rice do you want to eat?

As individuals, we want to obtain delicious rice easily, don't we? While the Earth and human beings are also of great importance, we also place value on personal happiness. This section prompts visitors to consider what kind of rice they want to eat as individual consumers.

For immediate attention of media

September 27, 2017

Miraikan – The National Museum of Emerging Science and Innovation

The Science Centre World Summit 2017 parallel event

Temporary Exhibition “No choice? The earth – sold out!

- SDGs × Backward from the Future -”

Miraikan - the National Museum of Emerging Science and Innovation (Miraikan; Mamoru Mohri, Chief Executive Director) will be holding a temporary exhibition “No choice? The earth – sold out! - SDGs × Backward from the future -” during the period from November 1, 2017 (Wednesday) to January 8, 2018 (Monday).

Amidst the active implementation of various initiatives toward the achievement of the Sustainable Development Goals (SDGs) (*1), a discussion will be held about the role of science centers toward the attainment of the SDGs, as a part of the Science Centre World Summit 2017 (SCWS 2017) (*2) hosted by Miraikan in November 2017. In June this year, ahead of the Summit, representatives from science centers around the world agreed on the “Tokyo Protocol” (*3), an action guideline for science centers that aims to promote participatory citizenship in global sustainability.

Against this background, this exhibition disseminates information about SDGs widely to the public. It provides an opportunity for visitors to think about sustainability and spurs them to take relevant action. Through that, it aims to contribute to resolving global issues.

■Event details■

Title SCWS 2017: Parallel event
 Temporary Exhibition “No choice? The earth – sold out! - SDGs × Backward from the future -”

Term: November 1, 2017 - January 8, 2018

Closing days: Tuesdays (open on national holidays),
 November 15 and New Year holidays
 (December 28 to January 1)

Time: 10:00 - 17:00

Venue: Miraikan – The National Museum of Emerging Science and Innovation, 3rd floor, permanent exhibition.

Fee: Admission ticket (adults – 620 yen, 18 years old and under – 210 yen, 6 years old and under – free of charge)



■ Content ■

What would you do if you knew that the lifestyle you are enjoying right now is not sustainable?

The temporary exhibit introduces the 17 goals for sustainable development and discusses the connection between the goals and our consumption behavior. In addition, by experiencing the hands-on exhibit "Backward from the Future", situated next to the exhibition, visitors can think about the science, technology and lifestyles that will make global sustainability a reality. A workshop with an originally developed card game will also be held during the session.

For more details see: www.miraikan.jst.go.jp/en/event/1709111621905.html

Inquiries about Miraikan	Inquiries about this press release
Miraikan – The National Museum of Emerging Science and Innovation 2-3-6 Aomi, Koto-ku, Tokyo 135-0064 TEL: 03-3570-9151 FAX: 03-3570-9150 URL: http://www.miraikan.jst.go.jp/en/	Public Relations section, Miraikan – The National Museum of Emerging Science and Innovation e-mail: press@miraikan.jst.go.jp TEL: 03-3570-9192 FAX: 03-3570-9150

*1: Sustainable Development Goals (SDGs)

International targets to be achieved by 2030, set out in the 2030 Agenda for Sustainable Development adopted at the UN Summit in September 2015.



*2 The Science Centre World Summit 2017 (SCWS 2017)

The Science Centre World Summit (SCWS) is a global meeting convened once every three years, bringing together many leaders who are steering science centres around the world, as well as delegates from the education, policymaking, and corporate sectors.

The Science Centre World Summit 2017 (SCWS 2017) is organized around the central theme of “Connecting the World for a Sustainable Future.” The discussions, undertaken in various sessions, will cover a wide range of regional to global issues concerning the strategy that science centers can take to transform and progress toward a new model in cooperation with organizations from other sectors, and to contribute to the realization of a sustainable society.

Period: 15 to 17 November, 2017

Venue: Miraikan - the National Museum of Emerging Science and Innovation

Website: <https://scws2017.org/>

*3 Tokyo Protocol - On the Role of Science Centres and Science Museums Worldwide In Support of the United Nations SDGs

On June 17, 2017, ahead of the convention of SCWS 2017, representatives from science centers around the world agreed on the Tokyo Protocol, which aims to further promote participatory citizenship in global sustainability.

The Tokyo Protocol is an action guideline for science centers worldwide, to be implemented over the next three years. It declares that science centers will undertake activities with the purpose of serving as a platform for generating creativity and facilitating in-depth understanding toward the attainment of the SDGs. There are also plans to conduct concrete discussions based on the Tokyo Protocol at SCWS 2017 to be held in November. Details: scws2017.org/tokyo_protocol/



Signing ceremony in Portugal

Tokyo Protocol - On the Role of Science Centres and Science Museums Worldwide In Support of the United Nations Sustainable Development Goals

The Parties to this Protocol (the following is an excerpt):

- Recognising that science, technology, engineering and mathematics (STEM) is critical to meet these challenges and that STEM is universally relevant across borders and cultures;
- Emphasising that public engagement and action in science and technology are key to achieving the SDGs;
- Endorsing the commitments and achievements to date of global, regional and local organisations worldwide to achieve these goals for the benefit of all life forms on the planet.
- Taking into account that everyone must play a part to meet the challenges addressed by the SDGs and that these will be fulfilled by the actions of individuals in communities throughout the world;
- Recognising as well that the rapid pace of change in the world today - scientifically, technologically, demographically and economically - offers both challenges and new opportunities for collective actions to achieve the SDGs;
- Acknowledging that nearly 3000 science centres and science museums that influence more than 310 million visitors and participants are deeply committed to raising awareness and helping all members of society to be participants in the solutions achievable to meet these goals for our planet;
- Expressing confidence that science centres and science museums are agile institutions responsive to rapid changes and behaving proactively, share the vision on their roles in the ever-changing society

For immediate attention of media

November 15, 2017

Miraikan – The National Museum of Emerging Science and Innovation

Discussing the new role of science centres

The Science Centre World Summit 2017 has started

On November 15, 2017, at 9 am, for the first time by an Asian nation, the Science Centre World Summit 2017 was commenced at Miraikan - the National Museum of Emerging Science and Innovation (Miraikan; Mamoru Mohri, Chief Executive Director), Tokyo, Japan. The Summit, organized once in every three years, is a place where representatives of science centers from around the world, along with educators, policy makers, and industry and citizens communities meet to discuss new roles science centres should play in the coming future. The central theme of the Summit is “Connecting the World for a Sustainable Future.” For 3 days, 828 participants from 98 countries and regions will discuss a wide range of regional/global issues and strategies that science centers can adopt to transform and progress toward a new model in cooperation with organizations from other sectors, and, contribute to the realization of a sustainable Earth, and therefore, a sustainable human species.

■ The opening ceremony ■

The opening ceremony was held in the presence of His Imperial Highness the Crown Prince, and many guests including representatives of science centres, embassy officials, conference participants and others. In the opening speech, Dr. Mohri, the Chair of the International Programme Committee, welcomed all participants and expressed his expectation with words: “In this Summit, I would like to think with people around the world about what we should do to preserve our rich planet for future generations”.

Following Dr. Mohri, His Imperial Highness Crown Prince expressed his hope “that the participants of this Summit will deepen their mutual understanding and friendship, share a vision and ways for a sustainable future, and take other important steps forward for the achievement of a better society.”

The opening speech was concluded by HRH Princess Sumaya bint El Hassan, the president of the Royal Scientific Society of Jordan, with her message that “to realize a sustainable society, it is important for the world to face science and technology together. It is essential that scientists gather to share their knowledge, and educate, empower, stimulate, and enlighten people of all generations”.



■ Keynote lecture/session ■

In the following keynote lecture, Architect Tadao Ando shared his thought that “People's lives became convenient and comfortable, but the Earth has weakened.” and in his message stated that “In order to pass our beautiful Earth to our children, it is important that we create opportunities and places where children can cultivate their ‘ability to think’.” In the subsequent key session, Astronaut Jan Davis together with Dr. Mohri discussed the importance of international cooperation for the progress of science and technology.



■ Parallel session ■

After the keynote session, various parallel sessions started where participants discuss what concrete actions and new guidelines science centres can adopt to contribute to solving global issues.

In the “Global Trends and the Potential Role of Science Centres” session, the participants exchanged their thoughts on topics such as: “Science Museum is a place where people use scientific evidence to support their thoughts, decisions and actions”.

More than 45 sessions will be held during the Summit.



For more information about the Science Centre World Summit 2017: <https://scws2017.org/>

For more information related to the event contact

Public Relations section, Miraikan - The National Museum of Emerging Science and Innovation

E-mail: press@miraikan.jst.go.jp TEL: 03-3570-9192 FAX: 03-3570-9150

For immediate attention of media

November 17, 2017

Miraikan – The National Museum of Emerging Science and Innovation

The Science Centres World Summit 2017 has concluded

On November 17, 2017, at 5pm, the Science Centre World Summit 2017 organized by Miraikan - the National Museum of Emerging Science and Innovation, (Miraikan; Mamoru Mohri, Chief Executive Director), Tokyo, Japan, concluded. The central theme of the Summit was “Connecting the World for a Sustainable Future”. 828 participants from 98 countries and regions and of various backgrounds joined the Summit, and contributed their ideas during the many sessions of the event. During the Summit, strategies for the “Tokyo Protocol”, which effectively expands the 2014 Mechelen declaration, has been discussed with the aim to enhance public engagement and create a concrete action plan on how science centres can contribute to global issues and the sustainability of the human race.

■ Special Session on the Tokyo Protocol ■

The Tokyo Protocol will become the action guideline for science centres from all around the world to follow for the subsequent 3 years. It pronounces new roles for science centres as a platform that fosters creativity and understanding necessary for reaching the UN’s Sustainability Development Goals (SDG’s).

During the special session held on November 15th, the representatives of the science centre networks from around the world (including North America, Europe, North Africa, Middle East, Latin America and Caribbean region, South African and Asian-Pacific region) introduced issues that need to be addressed in each region, and presented examples of how science centres can contribute towards achieving the SDGs.



※Please refer to the following page for the Tokyo Protocol preamble.

■ Keynote session ■

During the keynote session, environmental economist Pavan Sukhdev stressed that: “It is necessary that all sectors including politics, governments, businesses and individuals engage in effort for achieving sustainable development”, and “Science centres exhibits are powerful tools for deliver truth to many people”. Thomas Lovejoy, a researcher studying the impact of human activities on biodiversity, stated in his contribution that “In order to make people involved in global issues, we need to talk about science to diverse audiences, use everyday language and provide easy to understand examples”, and that “Science centres has the potential to play a central role in mediating such engagement”.



■ Summary session ■

In the summary session, the results of the summit were reviewed, and a panel discussion was held where the participants discussed the actions science museums should take in the coming 3 years.

During the closing ceremony, Dr. Mohri Mamoru, the Chief Executive Director of the hosting institution, concluded the Summit by passing the baton to Ms. Silvia Singer, the Director of the Museo Interactivo de Economía (MIDE, Mexico) who will host the next Science Centre World Summit in 2020.



For more information about the Science Centre World Summit 2017: <https://scws2017.org/>

For more information related to the event contact

Public Relations section, Miraikan - The National Museum of Emerging Science and Innovation

E-mail: press@miraikan.jst.go.jp TEL: 03-3570-9192 FAX: 03-3570-9150

Tokyo Protocol

On the Role of Science Centres and Science Museums Worldwide
In Support of the United Nations Sustainable Development Goals

Preamble

Science centres and science museums throughout the world are committed to promoting scientifically literate societies and participatory citizenship, by educating, empowering and inspiring people of all ages about the impact of science on their lives. Since 1996, leaders of the field have convened in six world congresses, reaffirming these commitments in two formal declarations (Toronto and Cape Town.) These congresses provided the basis for convening the first Science Centre World Summit (SCWS2014) in Mechelen, Belgium, yielding the comprehensive Mechelen Declaration of principles and concrete actions to enhance public engagement for a better world.

At the convening of the second Science Centre World Summit (SCWS2017) on 15-17 November, 2017 in Tokyo, Japan, parties recognise the importance of applying the principles of the Mechelen Declaration more precisely to strengthening public engagement in global sustainability. Underscoring this important role for the field,

The Parties to this Protocol:

- Recalling the Sustainable Development Goals (SDGs) endorsed by the United Nations (UN) in 2015 that are global in scope and impact;
- Recognising that science, technology, engineering and mathematics (STEM) is critical to meet these challenges and that STEM is universally relevant across borders and cultures;
- Emphasising that public engagement and action in science and technology are key to achieving the SDGs;
- Endorsing the commitments and achievements to date of global, regional and local organisations worldwide to achieve these goals for the benefit of all life forms on the planet.
- Taking into account that everyone must play a part to meet the challenges addressed by the SDGs and that these will be fulfilled by the actions of individuals in communities throughout the world;
- Recognising as well that the rapid pace of change in the world today - scientifically, technologically, demographically and economically - offers both challenges and new opportunities for collective actions to achieve the SDGs;
- Acknowledging that nearly 3000 science centres and science museums that influence more than 310 million visitors and participants are deeply committed to raising awareness and helping all members of society to be participants in the solutions achievable to meet these goals for our planet;
- Expressing confidence that science centres and science museums are agile institutions responsive to rapid changes and behaving proactively, share the vision on their roles in the ever-changing society;
- Declaring that science centres and science museums worldwide are concerned, committed, and prepared to address these increasingly urgent goals,

Have agreed as follows:

General Provision

This Protocol stands as a fully endorsed supplement to the Mechelen Declaration opened for signature on 19 March, 2014 at the convening of the first Science Centre World Summit in Mechelen, Belgium and adopted as a framework with the following seven action points:

We will ...

1. *Investigate how to engage even more effectively with local communities and increasingly diverse audiences, and keep the focus on gender differences in engagement.*
2. *Continue taking actions that have a positive global impact and that will make people everywhere more aware of the opportunities that science and technology hold for the sustainable advancement of humankind.*
3. *Draw the attention of decision makers and the media to the essential role of public engagement with science and technology by setting up high-profile global activities.*
4. *Endeavour to leverage the position of science centres as “trusted” places to introduce the public to new technological solutions and sustainable technologies, and to broaden the potential use of these solutions.*
5. *Take the lead in developing the best methods for engaging learners and optimizing their education in both formal and informal settings using appropriate technologies in widely varying contexts.*

7. *Engage the public more directly with research, using this engagement to help empower people, broaden attitudes and ensure that the work of universities and research institutions is relevant to society and to wider social concerns on a global scale.*
8. *Work together in a creative celebration of the International Science Centre Year 2019, encouraging people throughout the world to take part in shared experiences relating to science and technology and society.*

Statement of Purposes

The purposes of this Protocol are therefore to:

- I. Recognise and utilize science centres and science museums as platforms to help various relevant stakeholders build a better understanding of the challenges of realising the SDGs in increasingly diverse communities;
- II. Bring to the attention of the decision makers worldwide the accomplishments of the science centre and science museum field with regard to the SDGs consistent with the relevant action points of the Mechelen Declaration.

With Actions Set Forth:

The Parties to this Protocol will endeavour to –

- I. Give priority consideration to the importance and urgency of expanding public awareness of, and engagement in actions that help achieve the SDGs;
- II. Undertake actions relevant and appropriate to local communities with consideration for the SDGs;
- III. Serve as platforms for discourse and exchange among all diverse actors in society on these critical issues - bridging ideas, cultures, and views, whether they are founded in indigenous knowledge and long-standing traditions or fashioned in the rapid pace of global change;
- IV. Establish new and strengthen existing partnerships and collaborations with other organisations and entities that share the commitment of science centres and science museums to raise public awareness and engagement toward timely success in achieving the SDGs;
- V. Embrace and incorporate the contributions of technological innovation as tools to more effectively engage the public in these topics;
- VI. Serve as trusted links and valued communicators of both the progress being made and the challenges encountered by the scientific research community worldwide in contributing to the achievement of the SDGs;
- VII. Support advancement in the number, capabilities and efforts of science centres and science museums everywhere to achieve progress in meeting the SDGs;
- VIII. Accept the responsibility to serve as catalysts for better understanding and coordinated actions within communities throughout the world by stimulating tolerance and critical thinking, distinguishing fact from belief, reinforcing the imperative for evidence-based decision-making, and inspiring a new generation to view the SDGs as foundations on which to grow a better world;
- IX. Support the organisation of collective worldwide public STEM activities, wherever possible, to include observance of an annual international science centre and science museum day, consistent with intent of action item #7 of the Mechelen Declaration, but modifying in scope from an international year to an annual international day.

List of Media

<Opening Ceremony Attendees>

Press Club

Category	Company	Name of Media	No
TV	NHK (Japan Broadcasting Corporation)	NHK News	3
TV	Fuji Television Network, Inc.	News	2
TV	Mainichi Productions, Inc.	Album of the Imperial Household	2
TV	TV Asahi Corporation	ANN News	2
TV	Tokyo Broadcasting System Holdings, Inc. (TBS Holdings)		2
TV	TV TOKYO Holdings Corporation	Yugata Satellite etc.	2
TV	Nippon Television Network Corporation		2
Newspaper	The Asahi Shimbun Company	The Asahi Shimbun Evening Edition	1
Newspaper	The Yomiuri Shimbun	The Yomiuri Shimbun	1
News Service Agency	Jiji Press, Ltd.	News Report/Online network	1
News Service Agency	Kyodo News	Affiliates of Kyodo News	1
Magazine	SHUFU TO SEIKATSU SHA CO.,LTD.	Shukan Josei	1
Magazine	Shogakukan Inc.	Josei Seven	1
Newspaper	Nikkei Inc.	The Nikkei	1
Newspaper	Sankei Shimbun Co., Ltd.	FujiSankei Business i	1
Total			23

Imperial Household Agency Press Club

Category	Company	Name of Media	No
Newspaper	The Asahi Shimbun Company	The Asahi Shimbun	1
Newspaper	The Mainichi Newspapers	The Mainichi Newspapers	1
Newspaper	The Yomiuri Shimbun	The Yomiuri Shimbun	1
News Service Agency	Kyodo News	Kyodo News	1
Newspaper	Sankei Shimbun Co., Ltd.	The Sankei Shimbun	1
Newspaper	Nikkei Inc.	The Nikkei	1
TV	Nippon Television Network Corporation	Shu-ichi	1
TV	Tokyo Broadcasting System Holdings, Inc. (TBS Holdings)		1
TV	Fuji Television Network, Inc		1
TV	TV Asahi Corporation		1
TV	Jiji Press, Ltd.		1
Total			11

<Special Session Attendees>

Category	Company	Name of Media	No
TV	Nippon Television Network Corporation	News every.	2
News Service Agency	Kyodo News	Kyodo News	1
Newspaper	Nikkei Inc.	The Nikkei	1
Newspaper	Nikkei Inc.	The Nikkei	1
Newspaper	Nikkei Inc.	The Nikkei	1
Newspaper	Yugyo Hochi Shimbun	Yugyo Hochi Shimbun	1
Newspaper	The Asahi Shimbun	The Asahi Shimbun	1
Magazine	Nikkei Business Publications, Inc.	Nikkei Ecology	1
Magazine	The Japan Journal	Highlighting JAPAN	2
WEB	DWANGO Co., Ltd.	Niko Niko Live	1
WEB	Japan Science and Technology Agency	Science Portal	1
Others	Bunkyo News Co., Ltd.		1
Others	Press Club		1
Others	TYO		4
Others	Ministry of Education, Culture, Sports, Science and Technology (MEXT)		1
Total			20



<Press conference for Foreign Press>

Category	Company	Country	No
News Service Agency	Zuma Press	USA	1
News Service Agency	Xinhua News Agency	China	1
Newspaper	The Straits Times	Singapore	1
-	Freelance	-	1
Total			4

<Photos>



TV coverage

Number of programmes

7

(as of 25 December)

No.	Date broadcast	Day of the week	Broadcaster	Programme title	Broadcast time	Title	Content	Duration of coverage (seconds)
1	2017/6/24	Sat.	BS FUJI	Conversation with Tadao Ando: The future of this country	16:00		Under the cherry blossoms in full bloom around Osaka Castle, Tadao Ando talks frankly with Professor Shinya Yamanaka about the courage to rise to challenges and the future of Japan. SCWS 2017 in November is mentioned. http://konokuni.jp/	
2	2017/11/15	Wed.	NHK (Japan Broadcasting Corporation)	News and weather	14:02:11-14:03:33	Science Centre World Summit 2017 opens in the Miraikan -The National Museum of Emerging Science and Innovation in Tokyo's Koto Ward	The Science Centre World Summit 2017, in which representatives of science centres around the world discuss how science can contribute to solving humanity's shared problems, such as the eradication of poverty and high-quality education for all, has opened at the [Institution] Miraikan -The National Museum of Emerging Science and Innovation. [Other telops: North Korea abduction issue: 40 years since the abduction of Megumi Yokota ■ President of health food company and others arrested on suspicion of defrauding elderly with the promise of high dividends [Meeting/speech] HIH the Crown Prince, Tadao Ando (architect) [People] Megumi Yokota	82
3	2017/11/15	Wed.	CX	FNN Speak	11:50:20-11:50:47	HIH the Crown Prince attended the Opening Ceremony of the Science Centre World Summit 2017	HIH the Crown Prince attended the Opening Ceremony of the Science Centre World Summit 2017. The [Institution] Miraikan -The National Museum of Emerging Science and Innovation in Koto Ward, Tokyo was filmed. [Meeting/speech] HIH the Crown Prince	27
4	2017/11/15	Wed.	tv asahi	tv asahi News		HIH the Crown Prince attended the Science Centre World Summit 2017	HIH the Crown Prince attended an international conference that brought together people associated with science centres worldwide. On the 15th, HIH the Crown Prince attended the Opening Ceremony of the Science Centre World Summit 2017 in Koto Ward, Tokyo. This conference is a venue for the presentation of efforts by science centres toward solving the problems facing our world, such as environmental issues and food shortages, and this is the first time it has been held in Asia. HIH the Crown Prince gave a speech in English saying "Science centres connect science, technology, and the people who make up society, and are of great importance as venues encouraging action toward the future." The ceremony was followed by a keynote speech by architect Tadao Ando and a talk show by former astronaut Mamoru Mohri, to which HIH the Crown Prince listened attentively.	
5	2017/11/15	Wed.	Nippon Television Network	NTV News		HIH the Crown Prince gave a speech in English at the Science Centre World Summit 2017	HIH the Crown Prince attended the Opening Ceremony of the Science Centre World Summit 2017, and gave a speech in English. HIH the Crown Prince: "I hope that at this Summit many efforts will be shared, and new prospects opened through lively discussion." HIH the Crown Prince attended the Opening Ceremony of the Science Centre World Summit 2017 held for three days from the 15th at the Miraikan -The National Museum of Emerging Science and Innovation in Tokyo. This international conference brings together people associated with science centres around the world and experts in a wide range of fields, and is being held in Japan for the first time. HIH the Crown Prince gave a speech in English in which he expressed his hope that the participants of this Summit would share a vision and ways for a sustainable future, and take other important steps forward for the achievement of a better society.	
6	2017/11/16	Thu.	NHK (Japan Broadcasting Corporation)	Tokyo Metropolitan Network	18:31:25-18:36:56	A sense of crisis about the future: what should we be aiming for?	The Science Centre World Summit 2017 has opened at the [Institution] Miraikan -The National Museum of Emerging Science and Innovation in Tokyo's Koto Ward. Held once every three years, it is an opportunity for people associated with science centres around the world to exchange views on their role. The venue includes exhibits designed to arouse interest in science, including the Geo-Cosmos, a display of the earth 6 m in diameter made of organic electroluminescence panels, and an advanced android robot, the Otonaroid. On a graph showing the average proportions of junior high school students who responded that they enjoy science in an international survey, Japanese junior high school students scored 66%, a figure that continues to be lower than the global average. The [Institution] Itabashi Science + Education Museum in Tokyo's Itabashi Ward was opened in 1988. Visitors can learn about their sense of balance through experience. The target audience for understanding how science works is upper elementary school students and older. However, the number of visitors in this age group is falling compared with a few years ago. The museum has recently been increasing the number of events it holds in an effort to attract more visitors. [Comment] Director, Itabashi Science + Education Museum	331
7	2017/12/13	Wed.	NTV	newsevery.	16:35:38-16:35:53 16:39:14-16:50:00	Japanese hospitality: a close look behind the scenes at an international conference	We take a close look behind the scenes at the Science Centre World Summit 2017, an international conference held at the [Institution] Miraikan -The National Museum of Emerging Science and Innovation in Odaiba, Tokyo. This is the first time a large-scale international conference has been held at the [Institution] Miraikan -The National Museum of Emerging Science and Innovation. We follow some of the women who make this international conference happen. Scenes of installation work in the Main Hall, setting up the registration desks, and problems before the opening. Employees of the international convention company Congress filmed. Video of the Ise-Shima Summit. Description of the transition of the number of international conferences held in recent years. The economic effect of international conferences is around 590 billion yen. [Press conference] Mamoru Mohri (Chief Executive Director, Miraikan -The National Museum of Emerging Science and Innovation)	
Total		7 programmes						

Newspaper and magazine coverage
Number of articles

(as of 20 December)

No.	Date	Publisher	Article title	Colour	Circulation	Article size
1	2017/10/6	Fuji Sankei Business i., Tokyo	Connecting the World for a Sustainable Future Next month's Science Centre World Summit 2017 in Tokyo	C	153000	2 P
2	2017/10/6	Fuji Sankei Business i., Osaka	Connecting the World for a Sustainable Future Next month's Science Centre World Summit 2017 in Tokyo	C	153000	2 P
3	2017/10/27	Kotsu Shimbun	Events: Beginning of Winter [15th (Wed)] Science Centre World Summit 2017		78000	1.9cm
4	2017/11/12	Saitama Shimbun	This Week's Calendar 14th (Tue) Science Centre World Summit 2017		128795	1.8cm
5	2017/11/15	Yomiuri Shimbun, Tokyo	HIH the Crown Prince attends the Science Centre World Summit 2017		2076611	7.3cm
6	2017/11/15	Yomiuri Shimbun, Sapporo	HIH the Crown Prince attends the Science Centre World Summit 2017		50571	7.3cm
7	2017/11/15	Yomiuri Shimbun, Takaoka	HIH the Crown Prince attends the Science Centre World Summit 2017		4216	7.3cm
8	2017/11/15	Yomiuri Shimbun, Osaka	HIH the Crown Prince attends the Science Centre World Summit 2017		1196312	7.3cm
9	2017/11/15	Yomiuri Shimbun, Fukuoka	HIH the Crown Prince attends the Science Centre World Summit 2017		92512	7.3cm
10	2017/11/15	Nihon Keizai Shimbun, Tokyo	HIH the Crown Prince attends the Science Centre World Summit 2017		918615	6.1cm
11	2017/11/15	Nihon Keizai Shimbun, Nagoya	HIH the Crown Prince attends the Science Centre World Summit 2017		132676	6.1cm
12	2017/11/15	Nihon Keizai Shimbun, Osaka	HIH the Crown Prince attends the Science Centre World Summit 2017		446682	6.1cm
13	2017/11/15	Nihon Keizai Shimbun, Fukuoka	HIH the Crown Prince attends the Science Centre World Summit 2017		60621	6.1cm
14	2017/11/15	Mainichi Shimbun, Nagoya	HIH the Crown Prince attends the Science Centre World Summit 2017		35225	8.2cm
15	2017/11/15	Sankei Shimbun, Osaka	HIH the Crown Prince attends the Science Centre World Summit 2017		536122	13.2cm
16	2017/11/15	Hokkoku Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017		64919	8.7cm
17	2017/11/16	Nihon Keizai Shimbun, Tokyo	800 participants discussing global issues: the Science Centre World Summit 2017 opens		1762654	15.0cm
18	2017/11/16	Nihon Keizai Shimbun, Sapporo	800 participants discussing global issues: the Science Centre World Summit 2017 opens		50718	15.0cm
19	2017/11/16	Nihon Keizai Shimbun, Nagoya	800 participants discussing global issues: the Science Centre World Summit 2017 opens		202224	15.0cm
20	2017/11/16	Nihon Keizai Shimbun, Osaka	800 participants discussing global issues: the Science Centre World Summit 2017 opens		746927	14.6cm
21	2017/11/16	Nihon Keizai Shimbun, Fukuoka	800 participants discussing global issues: the Science Centre World Summit 2017 opens		184069	15.0cm
22	2017/11/16	Sankei Shimbun, Tokyo	HIH the Crown Prince attends the Science Centre World Summit 2017		712675	11.2cm
23	2017/11/16	Toyama Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017		351975	11.9cm
24	2017/11/16	Fuji Sankei Business i., Tokyo	"Hope for a better society": HIH the Crown Prince's words to the Science Centre World Summit 2017	C	153000	1/7 P
25	2017/11/16	Fuji Sankei Business i., Osaka	"Hope for a better society": HIH the Crown Prince's words to the Science Centre World Summit 2017	C	153000	1/7 P
26	2017/11/16	Sekai Nippo	HIH the Crown Prince attends the Science Centre World Summit 2017	C	368000	30.3cm
27	2017/11/17	Asahi Shimbun, Tokyo	Introducing teenagers' video on "Happiness": Science Centre World Summit 2017		4256333	37.4cm
28	2017/11/17	Asahi Shimbun, Tama	"What is happiness?" A video made by teenagers. The Science Centre World Summit 2017 in Koto Ward		314200	29.0cm
29	2017/11/19	Sankei Shimbun, Tokyo	Imperial Family Weekly 11th–17th Science Centre World Summit 2017		712675	9.2cm

No.	Date	Publisher	Article title	Colour	Circulation	Article size
30	2017/11/19	Sankei Shimbun, Osaka	Imperial Family Weekly 11th–17th Science Centre World Summit 2017		894145	9.2cm
31	2017/11/20	Nihon Keizai Shimbun, Tokyo	The Science Centre World Summit 2017: Solidarity for sustainable development with 100 countries and regions participating		1762654	27.6cm
32	2017/11/20	Nihon Keizai Shimbun, Sapporo	The Science Centre World Summit 2017: Solidarity for sustainable development with 100 countries and regions participating		50718	27.6cm
33	2017/11/20	Nihon Keizai Shimbun, Nagoya	The Science Centre World Summit 2017: Solidarity for sustainable development with 100 countries and regions participating		202224	27.6cm
34	2017/11/20	Nihon Keizai Shimbun, Osaka	The Science Centre World Summit 2017: Solidarity for sustainable development with 100 countries and regions participating		746927	27.6cm
35	2017/11/20	Nihon Keizai Shimbun, Fukuoka	The Science Centre World Summit 2017: Solidarity for sustainable development with 100 countries and regions participating		184069	27.6cm
36	2017/12/8	Ningen Kaigi	The Science Centre World Summit 2017 was held in Asia for the first time at the Miraikan -The National Museum of Emerging Science and Innovation, with 828 participants from 98 countries and regions and a wide variety of fields discussing the theme "Connecting the World for a Sustainable Future."			
37	2017/12/11	Nihon Keizai Shimbun, Tokyo, evening edition	The Science Centre World Summit 2017, which brings together representatives of the world's leading science centres, was held in November at Miraikan -The National Museum of Emerging Science and Innovation, where the Chief Executive Director, Mamoru Mohri, emphasized the importance of "connection and solidarity" not only between science centres themselves but also between society and science centres.			
38	2017/12/13	Nihon Keizai Shimbun, Nagoya, evening edition	The Science Centre World Summit 2017, which brings together representatives of the world's leading science centres, was held in November at Miraikan -The National Museum of Emerging Science and Innovation, where the Chief Executive Director, Mamoru Mohri, emphasized the importance of "connection and solidarity" not only between science centres themselves but also between society and science centres.			
39	2017/12/13	Nihon Keizai Shimbun, Osaka, evening edition	The Science Centre World Summit 2017, which brings together representatives of the world's leading science centres, was held in November at Miraikan -The National Museum of Emerging Science and Innovation, where the Chief Executive Director, Mamoru Mohri, emphasized the importance of "connection and solidarity" not only between science centres themselves but also between society and science centres.			
40	2017/12/13	Nihon Keizai Shimbun, Fukuoka, evening edition	The Science Centre World Summit 2017, which brings together representatives of the world's leading science centres, was held in November at Miraikan -The National Museum of Emerging Science and Innovation, where the Chief Executive Director, Mamoru Mohri, emphasized the importance of "connection and solidarity" not only between science centres themselves but also between society and science centres.			
Total	41 articles					

No.	Date	Website name	Headline	URL	Category
1	2017/9/5	WEBRONZA	Science centres working on solutions to global issues	http://webronza.ashi.com/science/articles/2017081100024.html	Asahi Shimbun Digital website (paywalled)
2	2017/10/6	SankeiBiz	[SCWS 2017] (1) Connecting the World for a Sustainable Future	http://www.sankeibiz.jp/compliance/news/171006/cpc171	Industry/Economic paper website
3	2017/10/6	SankeiBiz	[SCWS 2017] (2) Interview with Mamoru Mohri, Chief Executive Director of Miraikan - The National Museum of Emerging Science and Innovation	http://www.sankeibiz.jp/compliance/news/171006/cpc1710061130002-	Industry/Economic paper website
4	2017/10/6	SankeiBiz	[SCWS 2017] (3) Bringing together experts in a wide range of fields from around the world	https://www.sankeibiz.jp/compliance/news/171006/cpc171	Industry/Economic paper website
5	2017/10/6	SankeiBiz	[SCWS 2017] (4) Joint events	http://www.sankeibiz.jp/compliance/news/171006/cpc171	Industry/Economic paper website
6	2017/11/10	YOMIURI ONLINE	Beautiful Rice - For a Sustainable Future	http://www.yomiuri.co.jp/local/tokyo/23/	National newspaper website
7	2017/11/15	NHK News	Science Centre World Summit 2017 opens, discusses how to benefit humanity	http://www3.nhk.or.jp/news/html/2017/1115/141454100112342	TV channel website
8	2017/11/15	TheNews	HIH the Crown Prince attends the Science Centre World Summit 2017	https://www.thenews.ne.jp/detail/2571	Other
9	2017/11/15	niconico News	HIH the Crown Prince attends the Science Centre World Summit 2017	http://news.nicovideo.jp/watch/nw306	Other
10	2017/11/15	livedoor News	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English	http://news.livedoor.com/article/detail/13894872/	Portal website
11	2017/11/15	msn News	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English	http://www.msn.co.m/ja-	Portal website
12	2017/11/15	Yahoo! News	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English	https://headlines.yahoo.co.jp/video/new	Portal website
13	2017/11/15	Nippon Television NEWS 24	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English	http://www.news24.jp/articles/2017/11/	TV channel website
14	2017/11/15	ABS news every.	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.akita-abs.co.jp/news/nnn	TV channel website
15	2017/11/15	FBS Fukuoka Broadcasting System	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.fbs.co.jp/news/news890161	TV channel website
16	2017/11/15	HTV Hiroshima Television	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.htv.jp/nn/news89016132	TV channel website
17	2017/11/15	JRT Shikoku Broadcasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.jrt.co.jp/nn/news8901613	TV channel website
18	2017/11/15	KKT Kumamoto Kenmin Televisions	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.kkt.jp/news/nnn/news8901	TV channel website
19	2017/11/15	Krt TV Kanazawa	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.tvkanazawa.co.jp/nn/new	TV channel website
20	2017/11/15	KRY Yamaguchi Broadcasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://kry.co.jp/news/news890161329	TV channel website
21	2017/11/15	KYT Kagoshima Yomiuri Television	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.kyt-tv.com/nnn/news8	TV channel website
22	2017/11/15	NB Nagasaki International Television Broadcasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.nib.jp/nn/news89016132	TV channel website
23	2017/11/15	RAB Aomori Broadcasting Corporation	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.rab.co.jp/nnn/news890161	TV channel website
24	2017/11/15	RNB Nankai Broadcasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.rnb.co.jp/nnn/news890161	TV channel website
25	2017/11/15	STV Sapporo Television Broadcasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.stv.jp/nn/news89016132	TV channel website
26	2017/11/15	TeNY News Head Line	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.teny.co.jp/nnn/news890161	TV channel website
27	2017/11/15	Web FCT Fukushima Central Television	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.fct.co.jp/nnn_news/news89	TV channel website
28	2017/11/15	YBC Yamagata Broadcasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.ybc.co.jp/nnn/news890161	TV channel website
29	2017/11/15	YBS Wide News	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.ybs.jp/tv/wnews/news8901	TV channel website
30	2017/11/15	Daiichi TV	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.tv-sdt.co.jp/nnn/news	TV channel website

31	2017/11/15	Television Iwate	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.tvi.jp/nn/news890161329	TV channel website
32	2017/11/15	TV Shinshu Broadcasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://tsb.jp/news/nn/news89016132	TV channel website
33	2017/11/15	Miyagi Television Broadcasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.mmt-tv.co.jp/nnn/news8	TV channel website
34	2017/11/15	Chukyo TV. Broadcasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.ctv.co.jp/ctvnews/news890	TV channel website
35	2017/11/15	Nippon Television NEWS 24	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.news24.jp/nnn/news89016	TV channel website
36	2017/11/15	Nihonkai Telecasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www.nkt-tv.co.jp/pc-	TV channel website
37	2017/11/15	Fukui Broadcasting	The Science Centre World Summit 2017: HIH the Crown Prince gives speech in English (Tokyo)	http://www2.fbc.jp/nnn/news8901613	TV channel website
38	2017/11/15	Mainichi Shimbun	Imperial Family: HIH the Crown Prince attends the Science Centre World Summit 2017	http://mainichi.jp/articles/20171115/ddh/n41/n40/n04000	National newspaper website
39	2017/11/15	ABC WEBNEWS	HIH the Crown Prince attends the Science Centre World Summit 2017	https://www.asahi.co.jp/webnews/app	TV channel website
40	2017/11/15	livedoor News	HIH the Crown Prince attends the Science Centre World Summit 2017	http://news.livedoor.com/article/detail/1	Portal website
41	2017/11/15	msn video	HIH the Crown Prince attends the Science Centre World Summit 2017	http://www.msn.co.m/ja-	Portal website
42	2017/11/15	Yahoo! News	HIH the Crown Prince attends the Science Centre World Summit 2017	https://headlines.yahoo.co.jp/video/new	Portal website
43	2017/11/15	tv asahi News	HIH the Crown Prince attends the Science Centre World Summit 2017	http://news.tv-asahi.co.jp/news_s	TV channel website
44	2017/11/15	Cube News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	http://news.cube-soft.jp/archive/2588534.html	Other
45	2017/11/15	TBS News-i	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	http://news.tbs.co.jp/newseye/tbs_ne	TV channel website
46	2017/11/15	Gunosy	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	https://gunosy.com/articles/RvbGj	Curated website
47	2017/11/15	@nifty News	HIH the Crown Prince attends the Science Centre World Summit 2017	https://news.nifty.com/article/domestic	Portal website
48	2017/11/15	@T COM NEWS	HIH the Crown Prince attends the Science Centre World Summit 2017	http://cont-t.com.ne.jp/photo/20	Information website
49	2017/11/15	Ameba News	HIH the Crown Prince attends the Science Centre World Summit 2017	https://news.ameba.jp/entry/2017111	Portal website
50	2017/11/15	BIGLOBE News	HIH the Crown Prince attends the Science Centre World Summit 2017	https://news.biglobe.ne.jp/domestic/1	Portal website
51	2017/11/15	BIGLOBE News	HIH the Crown Prince attends the Science Centre World Summit 2017	https://news.biglobe.ne.jp/domestic/1	Portal website
52	2017/11/15	Cube News	HIH the Crown Prince attends the Science Centre World Summit 2017	http://news.cube-soft.jp/archive/2588534.html	Other
53	2017/11/15	dmenu News	HIH the Crown Prince attends the Science Centre World Summit 2017	http://topics.smt.docomo.ne.jp/article/ii	Other
54	2017/11/15	goo News	HIH the Crown Prince attends the Science Centre World Summit 2017	https://news.goo.ne.jp/article/iii/patio	Portal website
55	2017/11/15	infoseek News	HIH the Crown Prince attends the Science Centre World Summit 2017	https://news.infoseek.co.jp/article/201	Portal website
56	2017/11/15	livedoor News	HIH the Crown Prince attends the Science Centre World Summit 2017	http://news.livedoor.com/article/detail/1	Portal website
57	2017/11/15	mixi News	HIH the Crown Prince attends the Science Centre World Summit 2017	http://news.mixi.jp/view_news.pl?id=4	Social media website
58	2017/11/15	NewsCafe	HIH the Crown Prince attends the Science Centre World Summit 2017	https://www.newscafe.ne.jp/article/20	Curated website
59	2017/11/15	NewsCafe	HIH the Crown Prince attends the Science Centre World Summit 2017	https://www.newscafe.ne.jp/article/20	Curated website
60	2017/11/15	TheNews	HIH the Crown Prince attends the Science Centre World Summit 2017	https://www.thenews.ne.jp/detail/2574	Other
61	2017/11/15	TNC News	HIH the Crown Prince attends the Science Centre World Summit 2017	http://news.tnc.ne.jp/photo/208689_1	Other
62	2017/11/15	Yahoo! News	HIH the Crown Prince attends the Science Centre World Summit 2017	https://headlines.yahoo.co.jp/hl?2a=201	Portal website
63	2017/11/15	Yahoo! News	HIH the Crown Prince attends the Science Centre World Summit 2017	https://headlines.yahoo.co.jp/hl?2a=201	Portal website
64	2017/11/15	excite News	HIH the Crown Prince attends the Science Centre World Summit 2017	https://www.excite.co.jp/News/society	Portal website

65	2017/11/15	Jorudan News!	HIH the Crown Prince attends the Science Centre World Summit 2017	http://news.jorudan.co.jp/docs/news/d	Other
66	2017/11/15	niconico News	HIH the Crown Prince attends the Science Centre World Summit 2017	http://news.nicovideo.jp/watch/nw306	Other
67	2017/11/15	JIJI.COM	HIH the Crown Prince attends the Science Centre World Summit 2017	https://www.jiji.com/jc/article?k=20171115	News agency website
68	2017/11/15	JIJI.COM	HIH the Crown Prince attends the Science Centre World Summit 2017	https://www.jiji.com/jc/n?id=20171115	News agency website
69	2017/11/15	dmenu News	HIH the Crown Prince attends the Science Centre World Summit 2017, Tadao Ando gives a keynote speech	http://topics.smt.docomo.ne.jp/article/sankei/nation/askch	Other
70	2017/11/15	goo News	HIH the Crown Prince attends the Science Centre World Summit 2017, Tadao Ando gives a keynote speech	https://news.goo.ne.jp/article/sankei/n	Portal website
71	2017/11/15	infoseek News	HIH the Crown Prince attends the Science Centre World Summit 2017, Tadao Ando gives a keynote speech	https://news.infoseek.co.jp/article/san	Portal website
72	2017/11/15	livedoor News	HIH the Crown Prince attends the Science Centre World Summit 2017, Tadao Ando gives a keynote speech	http://news.livedoor.com/article/detail/1	Portal website
73	2017/11/15	Yahoo! News	HIH the Crown Prince attends the Science Centre World Summit 2017, Tadao Ando gives a keynote speech	https://headlines.yahoo.co.jp/hl?a=20171115-01000000-sankei	Portal website
74	2017/11/15	iza!	HIH the Crown Prince attends the Science Centre World Summit 2017, Tadao Ando gives a keynote speech	http://www.iza.ne.jp/kiji/life/news/171115-01000000-sankei	Other
75	2017/11/15	Sankei News	HIH the Crown Prince attends the Science Centre World Summit 2017, Tadao Ando gives a keynote speech	http://www.sankei.com/life/news/171115-01000000-sankei	National newspaper website
76	2017/11/15	dmenu News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	http://topics.smt.docomo.ne.jp/article/asahi/nation/askch	Other
77	2017/11/15	goo News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	https://news.goo.ne.jp/article/asahi/n	Portal website
78	2017/11/15	livedoor News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	http://news.livedoor.com/article/detail/1	Portal website
79	2017/11/15	mixi News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	http://news.mixi.jp/view_news.pl?id=4	Social media website
80	2017/11/15	msn News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	http://www.msn.com/ja-	Portal website
81	2017/11/15	MY J:COM	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	https://news.mycom.jp/society/story/A	TV channel website
82	2017/11/15	Yahoo! News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	https://headlines.yahoo.co.jp/hl?a=20171115-01000000-sankei	Portal website
83	2017/11/15	Asahi Shimbun Digital	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	http://www.asahi.com/articles/ASKCH2	National newspaper website
84	2017/11/15	Nihon Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	https://www.nikkei.com/article/DGXM	National newspaper website
85	2017/11/15	Nihon Keizai Shimbun	The Science Centre World Summit 2017 opens, discusses global issues	https://www.nikkei.com/article/DGXM	National newspaper website
86	2017/11/16	Gunosy	HIH the Crown Prince attends the Science Centre World Summit 2017	https://gunosy.com/articles/RmOll	Curated website
87	2017/11/16	Nagoya Broadcasting Network	HIH the Crown Prince attends the Science Centre World Summit 2017	https://www.nagoya-tv.com/news/syakai	TV channel website
88	2017/11/16	Akiba Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://akiba.keizai.biz/gnnews/492351/	Information website
89	2017/11/16	Abeno Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://abeno.keizai.biz/gnnews/492351/	Information website
90	2017/11/16	Iwaki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://iwaki.keizai.biz/gnnews/492351/	Information website
91	2017/11/16	Urawa Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://urawa.keizai.biz/gnnews/492351/	Information website
92	2017/11/16	Osakabay Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://osakabay.keizai.biz/gnnews/492351/	Information website
93	2017/11/16	Oki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://oki.keizai.biz/gnnews/492351/	Information website
94	2017/11/16	Gangnam Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://gangnam.keizai.biz/gnnews/492351/	Information website
95	2017/11/16	Kitatama Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	https://kitatama.keizai.biz/gnnews/492351/	Information website
96	2017/11/16	Koenji Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://koenji.keizai.biz/gnnews/492351/	Information website
97	2017/11/16	Sakae Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://sakae.keizai.biz/gnnews/492351/	Information website
98	2017/11/16	Sancha Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://sancha.keizai.biz/gnnews/492351/	Information website

99	2017/11/16	Shibuya Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://www.shibukei.com/npnews/4923	Information website
100	2017/11/16	Minkei News Singapore	HIH the Crown Prince attends the Science Centre World Summit 2017	http://singapore.keizai.biz/npnews/4923	Information website
101	2017/11/16	Sumida Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://sumida.keizai.biz/npnews/49235	Information website
102	2017/11/16	Semba Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://semba.keizai.biz/npnews/49235	Information website
103	2017/11/16	Sotobo Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	https://sotobo.keizai.biz/npnews/4923	Information website
104	2017/11/16	Oita Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://oita.keizai.biz/npnews/492351/	Information website
105	2017/11/16	Tsukuba Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://tsukuba.keizai.biz/npnews/4923	Information website
106	2017/11/16	Tokushima Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://tokushima.keizai.biz/npnews/4923	Information website
107	2017/11/16	Dubai Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://dubai.keizai.biz/npnews/49235	Information website
108	2017/11/16	Namba Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://namba.keizai.biz/npnews/49235	Information website
109	2017/11/16	Nishinomiya Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://nishinomiya.keizai.biz/npnews/4923	Information website
110	2017/11/16	New York Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://newyork.keizai.biz/npnews/4923	Information website
111	2017/11/16	Bali Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://bali.keizai.biz/npnews/492351/	Information website
112	2017/11/16	Minkei News Vancouver	HIH the Crown Prince attends the Science Centre World Summit 2017	http://vancouver.keizai.biz/npnews/4923	Information website
113	2017/11/16	Bangkok Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://bangkok.keizai.biz/npnews/4923	Information website
114	2017/11/16	Biwako-Otsu Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://biwako-otsu.keizai.biz/npnews/492351/	Information website
115	2017/11/16	MtFuji Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://mtfuji.keizai.biz/npnews/492351/	Information website
116	2017/11/16	Hochiminh Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hochiminh.keizai.biz/npnews/4923	Information website
117	2017/11/16	Honolulu Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://honolulu.keizai.biz/npnews/4923	Information website
118	2017/11/16	Honjo Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	https://honjo.keizai.biz/npnews/49235	Information website
119	2017/11/16	Manila Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://manila.keizai.biz/npnews/49235	Information website
120	2017/11/16	Mizbe News Network	HIH the Crown Prince attends the Science Centre World Summit 2017	http://mizbenews.jp/npnews/492351/	Information website
121	2017/11/16	Airport News Japan	HIH the Crown Prince attends the Science Centre World Summit 2017	http://airportnews.jp/npnews/492351/	Information website
122	2017/11/16	Mumbai Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://mumbai.keizai.biz/npnews/4923	Information website
123	2017/11/16	Meguro Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://meguro.keizai.biz/npnews/4923	Information website
124	2017/11/16	Yamagata Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://yamagata.keizai.biz/npnews/4923	Information website
125	2017/11/16	Yokohama Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://www.hamakei.com/npnews/4923	Information website
126	2017/11/16	Wakayama Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://wakayama.keizai.biz/npnews/4923	Information website
127	2017/11/16	Asahikawa Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://asahikawa.keizai.biz/npnews/4923	Information website
128	2017/11/16	Iseshima Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://iseshima.keizai.biz/npnews/4923	Information website
129	2017/11/16	Izu Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://izu.keizai.biz/npnews/492351/	Information website
130	2017/11/16	Utsunomiya Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://utsunomiya.keizai.biz/npnews/4923	Information website
131	2017/11/16	Karasuma Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://karasuma.keizai.biz/npnews/4923	Information website
132	2017/11/16	Yokote Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://yokote.keizai.biz/npnews/49235	Information website
133	2017/11/16	Yokosuka Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://yokosuka.keizai.biz/npnews/4923	Information website
134	2017/11/16	Okazaki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://okazaki.keizai.biz/npnews/4923	Information website
135	2017/11/16	Okayama Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://okayama.keizai.biz/npnews/4923	Information website
136	2017/11/16	Yakushima Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://yakushima.keizai.biz/npnews/4923	Information website
137	2017/11/16	Shimokita Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://shimokita.keizai.biz/npnews/4923	Information website
138	2017/11/16	Kakogawa Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kakogawa.keizai.biz/npnews/4923	Information website
139	2017/11/16	Katsushika Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://katsushika.keizai.biz/npnews/4923	Information website
140	2017/11/16	Kanmon Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kanmon.keizai.biz/npnews/4923	Information website

141	2017/11/16	Kichijoji Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kichijoji.keizai.biz/nnnews/49235	Information website
142	2017/11/16	Kyobashi Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kyobashi.keizai.biz/nnnews/4923	Information website
143	2017/11/16	Kanazawa Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kanazawa.keizai.biz/nnnews/492	Information website
144	2017/11/16	Ginza Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://ginza.keizai.biz/nnnews/492351/	Information website
145	2017/11/16	Kumagaya Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kumagaya.keizai.biz/nnnews/49	Information website
146	2017/11/16	Hiroshima Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hiroshima.keizai.biz/nnnews/492	Information website
147	2017/11/16	Hirosaki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hirosaki.keizai.biz/nnnews/4923	Information website
148	2017/11/16	Koto Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://koto.keizai.biz/nnnews/492351/	Information website
149	2017/11/16	Kohoku Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kohoku.keizai.biz/nnnews/49235	Information website
150	2017/11/16	Minkei News Hong Kong	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hongkong.keizai.biz/nnnews/492	Information website
151	2017/11/16	Takasaki-Maebashi Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://takasaki.keizai.biz/nnnews/4923	Information website
152	2017/11/16	Takamatsu Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://takamatsu.keizai.biz/nnnews/49	Information website
153	2017/11/16	Kochi Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kochi.keizai.biz/nnnews/492351/	Information website
154	2017/11/16	Saga Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://saga.keizai.biz/nnnews/492351/	Information website
155	2017/11/16	Sapporo Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://sapporo.keizai.biz/nnnews/4923	Information website
156	2017/11/16	Sanriku Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://sanriku.keizai.biz/nnnews/49235	Information website
157	2017/11/16	Yamaguchi-Ube Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://yamaguchi.keizai.biz/nnnews/4	Information website
158	2017/11/16	Ichigaya Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://ichigaya.keizai.biz/nnnews/4923	Information website
159	2017/11/16	Jiyugaoka Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://jiyugaoka.keizai.biz/nnnews/492	Information website
160	2017/11/16	Kagoshima Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kagoshima.keizai.biz/nnnews/4	Information website
161	2017/11/16	Shunan Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://shunan.keizai.biz/nnnews/4923	Information website
162	2017/11/16	Akita Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://akita.keizai.biz/nnnews/492351/	Information website
163	2017/11/16	Kokura Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kokura.keizai.biz/nnnews/49235	Information website
164	2017/11/16	Otaru Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://otaru.keizai.biz/nnnews/492351/	Information website
165	2017/11/16	Odawara-Hakone Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://odawara-hakone.keizai.biz/nnnews/4923	Information website
166	2017/11/16	Matsudo Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://matsudo.keizai.biz/nnnews/4923	Information website
167	2017/11/16	Matsuyama Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://matsuyama.keizai.biz/nnnews/4	Information website
168	2017/11/16	Matsumoto Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://matsumoto.keizai.biz/nnnews/4	Information website
169	2017/11/16	Shonan Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://shonan.keizai.biz/nnnews/4923	Information website
170	2017/11/16	Ueno Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://ueno.keizai.biz/nnnews/492351/	Information website
171	2017/11/16	Shinbashi Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://shinbashi.keizai.biz/nnnews/492	Information website
172	2017/11/16	Shinjuku Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://shinjuku.keizai.biz/nnnews/4923	Information website
173	2017/11/16	Kobe Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kobe.keizai.biz/nnnews/492351/	Information website
174	2017/11/16	Kanda Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kanda.keizai.biz/nnnews/49235	Information website
175	2017/11/16	Mito Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://mito.keizai.biz/nnnews/492351/	Information website
176	2017/11/16	Morioka Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://morioka.keizai.biz/nnnews/4923	Information website
177	2017/11/16	Nishitama Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://nishitama.keizai.biz/nnnews/492	Information website
178	2017/11/16	Ishigaki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://ishigaki.keizai.biz/nnnews/4923	Information website
179	2017/11/16	Ishinomaki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://ishinomaki.keizai.biz/nnnews/49	Information website
180	2017/11/16	Akasaka Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://akasaka.keizai.biz/nnnews/4923	Information website

181	2017/11/16	Sendai Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://sendai.keizai.biz/nnnews/49235	Information website
182	2017/11/16	Chiba Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://chiba.keizai.biz/nnnews/492351/	Information website
183	2017/11/16	Kawagoe Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kawagoe.keizai.biz/nnnews/4923	Information website
184	2017/11/16	Kawasaki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kawasaki.keizai.biz/nnnews/4923	Information website
185	2017/11/16	Asakusa Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://asakusa.keizai.biz/nnnews/4923	Information website
186	2017/11/16	Funabashi Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://funabashi.keizai.biz/nnnews/492	Information website
187	2017/11/16	Kurashiki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://kurashiki.keizai.biz/nnnews/4923	Information website
188	2017/11/16	Adachi Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://adachi.keizai.biz/nnnews/49235	Information website
189	2017/11/16	Omiya Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://omiya.keizai.biz/nnnews/49235	Information website
190	2017/11/16	Ikebukuro Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://ikebukuro.keizai.biz/nnnews/492	Information website
191	2017/11/16	Nakano Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://nakano.keizai.biz/nnnews/49235	Information website
192	2017/11/16	Machida Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://machida.keizai.biz/nnnews/4923	Information website
193	2017/11/16	Chofu Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://chofu.keizai.biz/nnnews/49235	Information website
194	2017/11/16	Nagasaki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://nagasaki.keizai.biz/nnnews/4923	Information website
195	2017/11/16	Tenjin Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://tenjin.keizai.biz/nnnews/492351/	Information website
196	2017/11/16	Tokyo Bay Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://tokyobay.keizai.biz/nnnews/4923	Information website
197	2017/11/16	Higashiosaka Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://higashiosaka.keizai.biz/nnnews/	Information website
198	2017/11/16	Nara Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://nara.keizai.biz/nnnews/492351/	Information website
199	2017/11/16	Naha Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://naha.keizai.biz/nnnews/492351/	Information website
200	2017/11/16	Nikotama Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://nikotama.keizai.biz/nnnews/492	Information website
201	2017/11/16	Amagasaki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://amagasaki.keizai.biz/nnnews/4	Information website
202	2017/11/16	Hyuga Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hyuga.keizai.biz/nnnews/49235	Information website
203	2017/11/16	Nihombashi Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://nihombashi.keizai.biz/nnnews/4	Information website
204	2017/11/16	Umeda Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://umeda.keizai.biz/nnnews/49235	Information website
205	2017/11/16	Hakata Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hakata.keizai.biz/nnnews/49235	Information website
206	2017/11/16	Hachioji Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hachioji.keizai.biz/nnnews/4923	Information website
207	2017/11/16	Hachinohe Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hachinohe.keizai.biz/nnnews/49	Information website
208	2017/11/16	Itabashi Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://itabashi.keizai.biz/nnnews/4923	Information website
209	2017/11/16	Hida Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hida.keizai.biz/nnnews/492351/	Information website
210	2017/11/16	Himeji Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://himeji.keizai.biz/nnnews/49235	Information website
211	2017/11/16	Shinagawa Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://shinagawa.keizai.biz/nnnews/4	Information website
212	2017/11/16	Hamamatsu Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hamamatsu.keizai.biz/nnnews/4	Information website
213	2017/11/16	Toyama Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://toyama.keizai.biz/nnnews/49235	Information website
214	2017/11/16	Fushimi Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://fushimi.keizai.biz/nnnews/49235	Information website
215	2017/11/16	Fukui Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://fukui.keizai.biz/nnnews/492351/	Information website
216	2017/11/16	Bunkyo Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://bunkyo.keizai.biz/nnnews/49235	Information website
217	2017/11/16	Hirakata Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://hirakata.keizai.biz/nnnews/4923	Information website
218	2017/11/16	Meieki Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://meieki.keizai.biz/nnnews/49235	Information website
219	2017/11/16	Tachikawa Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://tachikawa.keizai.biz/nnnews/492	Information website
220	2017/11/16	Nerima Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://nerima.keizai.biz/nnnews/49235	Information website

221	2017/11/16	Roppongi Keizai Shimbun	HIH the Crown Prince attends the Science Centre World Summit 2017	http://roppongi.keizai.biz/nnnews/4923	Information website
222	2017/11/16	Nihon Keizai Shimbun	800 participants discussing global issues: the Science Centre World Summit 2017 opens	https://www.nikkei.com/article/DGKKZQ23530280V41C4	National newspaper website
223	2017/11/15	Yomiuri Telecasting (ytv)	Science Centre World Summit 2017: HIH the Crown Prince gives speech in English	http://www.ytv.co.jp/press/society/TI20261531.html	TV channel website
224	2017/11/15	KFB Fukushima Broadcasting	HIH the Crown Prince attends the Science Centre World Summit 2017	http://www.kfb.co.jp/news/ann/index.php	TV channel website
225	2017/11/15	eo News	HIH the Crown Prince attends the Science Centre World Summit 2017	http://eonet.jp/news/national/245064	Portal website
226	2017/11/15	au Web Portal	HIH the Crown Prince attends the Science Centre World Summit 2017, Tadao Ando gives a keynote speech	https://article.auon.e.jp/detail/1/2/4/134_r_20171115_1	Portal website
227	2017/11/15	au Web Portal	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	https://article.auon.e.jp/detail/1/2/2/162_r_20171115_1	Portal website
228	2017/11/16	Akita Asahi Broadcasting	HIH the Crown Prince attends the Science Centre World Summit 2017	http://www.aab-tv.co.jp/news/ann	TV channel website
229	2017/11/16	@nifty News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	https://news.nifty.com/article/domestic/society/12198	Portal website
230	2017/11/16	BIGLOBE News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	https://news.biglobe.ne.jp/domestic/1	Portal website
231	2017/11/16	goo News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	https://news.goo.ne.jp/movie/nation/t	Portal website
232	2017/11/16	StartHome	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	http://home.kingsoft.jp/news/video/tbs/444357.html	Curated website
233	2017/11/16	Yahoo! News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	https://headlines.yahoo.co.jp/video/new	Portal website
234	2017/11/16	excite News	HIH the Crown Prince attends the Opening Ceremony of the Science Centre World Summit 2017	https://www.excite.co.jp/News/society	Portal website
235	2017/11/16	dmenu News	"Hope for a better society": HIH the Crown Prince's words to the Science Centre World Summit 2017	http://topics.smt.docomo.ne.jp/article/	Other
236	2017/11/16	goo News	"Hope for a better society": HIH the Crown Prince's words to the Science Centre World Summit 2017	https://news.goo.ne.jp/article/business	Portal website
237	2017/11/16	SankeiBiz	"Hope for a better society": HIH the Crown Prince's words to the Science Centre World Summit 2017	http://www.sankeibiz.jp/compliance/ne	Industry/Economic paper website
238	2017/11/16	Yahoo! News	"Hope for a better society": HIH the Crown Prince's words to the Science Centre World Summit 2017	https://headlines.yahoo.co.jp/hl?a=20171116-00000001	Portal website
239	2017/11/16	Sekai Nippo	HIH the Crown Prince attends the Science Centre World Summit 2017	http://www.worldtimes.co.jp/imperialho	Specialist publication website
240	2017/11/19	Nihon Keizai Shimbun	Solidarity for sustainable development: the Science Centre World Summit 2017	https://www.nikkei.com/article/DGXMZQ23669020Z11C	National newspaper website
241	2017/11/19	Bio Impact	Solidarity for sustainable development: the Science Centre World Summit 2017 - Nihon Keizai Shimbun	http://bioimpact.jp/news/detail/524915	Specialist website
242	2017/11/20	Nihon Keizai Shimbun	The Science Centre World Summit 2017: Solidarity for sustainable development with 100 countries and regions participating	https://www.nikkei.com/article/DGKKZQ23669020Z11C	National newspaper website
243	2017/11/20	Bio Impact	Solidarity for sustainable development: the Science Centre World Summit 2017 - Nihon Keizai Shimbun	http://bioimpact.jp/news/detail/524971	Specialist website
244	2017/11/22	Science Portal	Science centres confirm their proactive role in the SDGs and other international issues at the Science Centre World Summit 2017 in the Tokyo Protocol	http://scienceportal.ist.go.jp/news/newflash_review/review	Specialist website
245	Jan. 2018 issue	Highlighting JAPAN	Connecting the World for a Sustainable Future	https://www.gov	
Total	245	articles			

Coverage in English in foreign and domestic media

TV	2 programmes
Magazines	4 articles
Web	56 articles

TV coverage

Number of programmes	2
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No.	Date broadcast	Broadcaster	Content
1	2017/11/20	NHK WORLD TV	The programme focused on UNESCO's Shahbaz Khan, who was attending SCWS 2017, including scenes showing his presentation in a session and experiencing the Superhuman Sports in the Research Area, and provided information on the SDGs and the Tokyo Protocol. https://www3.nhk.or.jp/nhkworld/en/news/videos/20171120190301085/
2		CNN	Broadcast of advertisement of the Ministry of Foreign Affairs (Japan)

Newspaper and magazine coverage

Number of articles	4
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No.	Date	Publisher	Article title	Content
1	2017/9/1	DIMENSIONS, SEPTEMBER/OCTO BER 2017	CO-DESIGN FOR TRANSFORMATION	Article contributed by Yuta Tanimura, a member of staff at Miraikan - The National Museum of Emerging Science and Innovation
2	2017/9/1	DIMENSIONS, SEPTEMBER/OCTO	CO-THINKING: HOW WE COLLABORATE	Described in an article by ASTC/CEO Gillian Thomas
3	2017/9/1	DIMENSIONS, SEPTEMBER/OCTO BER 2017	Co-Design Your Sustainable Future at the Science Centre World Summit 2017	Article contributed by Mamoru Mohri, Chief Executive Director of Miraikan -The National Museum of Emerging Science and Innovation
4	Jan. 2018 issue	Highlighting JAPAN	Connecting the World for a Sustainable Future	Article written by the Chief Executive Director of Miraikan -The National Museum of Emerging Science and Innovation in information media for overseas issued by the Cabinet Office

Web coverage

Number of articles 56

No.	Date	Website name	Country	Headline	URL	Category
1		OPEN NETWORK		SCIENCE CENTRE WORLD SUMMIT 2017 (SCWS2017)	http://www.nsm.or.th/index.php?option=com_k2&view=item&id=6355:storyboard-science-center-world-summit-scws-2017&Itemid=154	future earth website
2		TOKYO ART BEAT	Japan	Science Centre World Summit 2017: No Choice? The Earth – Sold Out!	http://www.tokyoartbeat.com/event/2017/8F80_en	Tokyo events website
3	2017/11/15	getty images		Crown Prince Naruhito is seen on arrival to attend the Science Centre World Summit Opening Ceremony at the National Museum of Emerging Science and Innovation (Miraikan) on November 15, 2017 in Tokyo, Japan.	http://www.gettyimages.co.uk/event/crown-prince-naruhito-attends-science-centre-world-summit-opening-ceremony-775076230#?crown-prince-naruhito-is-seen-on-arrival-to-attend-the-science-centre-picture-id874790754	Visual images provider to news services
4	2017/11/15	getty images		Science Centre World Summit 2017 in Tokyo Maissa Azab, Executive Director Childrens Museum Jordan, speaks during the Science Centre World Summit 2017 (SCWS 2017), is a global meeting convened once every three years, bringing together many leaders who are steering scienc	http://www.gettyimages.co.jp/detail/%E3%83%BB%E3%83%A5%E3%83%BC%E3%82%B9%E5%86%99%E7%9C%9F/maissa-azab-executive-director-childrens-museum-jordan-speaks-%E3%83%8B%E3%83%A5%E3%83%BC	Visual images provider to news services
5	2017/11/15	getty images		Science Centre World Summit 2017 in Tokyo Dr. Mamoru Mohri, Chair of the Science Centre World Summit 2017, speaks about the importance of the Tokyo Protocol, during the Science Centre World Summit 2017 (SCWS 2017), is a global meeting convened once every three years, bringing...P	http://www.gettyimages.fr/detail/photo-d'actualit%C3%A9/dr-mamoru-mohri-chair-of-the-science-centre-world-photo-dactualit%C3%A9/874643504#dr-mamoru-mohri-chair-of-the-science-centre-world-summit-2017-speaks-picture-id874643504	Visual images provider to news services
6	2017/11/15	getty images		Science Centre World Summit 2017 in Tokyo Erik Jacquemyn, Guy Labine, Tit Meng Lim, Maissa Azab, Mamoru Mohri, Mondri Mnguni, Luisa Massarani, Herbert Munder, Derek Fish, pose for Photo during the Science Centre World Summit 2017 (SCWS 2017), is a global meeting convened once...Mehr	http://www.gettyimages.de/detail/nachrichtenfoto/874643556#erik-jacquemyn-guy-labine-tit-meng-lim-maissa-azab-mamoru-mohri-picture-id874643556	Visual images provider to news services
7	2017/11/15	INFORMAL SCIENCE	USA	Science Center World Summit (SCWS) 2017	http://www.informalscience.org/community/calendar/science-center-world-summit-scws-2017	NSF STEM programme website

8	2017/11/15	YouTube channel of the Ministry of Foreign Affairs (Japan)	Japan		https://www.youtube.com/watch?v=amb3oPGzHxI	
9	2017/11/15	IMPERIAL FAMILY OF JAPAN		Science Centre World Summit	https://imperialfamilyjapan.wordpress.com/2017/11/15/science-centre-world-summit/	
10	2017/11/20	THE STRAITS NEWS	Singapore	Science centres moving beyond just displays	http://www.straitstimes.com/singapore/science-centres-moving-beyond-just-displays	Major newspaper website
11		NUCLEUS	Germany	EXTERNAL: SCIENCE CENTRE WORLD SUMMIT 2017	http://www.nucleus-project.eu/event/science-centre-world-summit/	Website for programmes funded by EU Horizon 2020
12		nur PHOTO		SCIENCE CENTRE WORLD SUMMIT 2017 IN TOKYO	https://nurphoto.com/en/gallery/128673/ma-sonry	
13		Canada News Agency	Canada	2017 Science Centre World Summit held in Tokyo	http://www.chinanews.org/World/922.html	
14		Piknu		#scws2017 photos & videos	http://piknu.me/hashtag/scws2017	
15		Grow Green		Science Centre World Summit	http://growgreenproject.eu/event/science-centre-world-summit/	
16		fddb		SCWS 2017	http://www.fddb.org/fulldome-events/scws-2017/	full dome data base
17		The Imperial Household Agency		Address by His Imperial Highness The Crown Prince at the Opening Ceremony of the Science Centre World Summit 2017 (Wednesday, November 15, 2017) (National Museum of Emerging Science and Innovation)	http://www.kunaicho.go.jp/page/okotoba/detailEn/15#107	
18		jimrichardson		SCIENCE CENTRE WORLD SUMMIT	http://jimrichardson.co.uk/portfolio/items/science-centre-world-summit/	
19		The Embassy of Afghanistan in Tokyo	Japan	Opening Ceremony of the Science Centre World Summit 2017 at the Na	http://www.afghanembassyjp.org/en/embassy/2pn=2191	
20	Jan. 2018 issue	Highlighting JAPAN	Japan	Connecting the World for a Sustainable Future	https://www.gov-online.go.jp/eng/publicity/book/hlj/html/201801/201801_01_en.html	

Science centre networks, science centres

21	2016/8/20	Journal of Science Communication		The call for proposals for the 2017 Science Centre World Summit (SCW	https://icom.sissa.it/call-proposals-2017-science-centre-world-summit-scws-now-open	
22	2017/9/19	ASTC	North America	Dimensions, September/October 2017—Co-Design for Transformation	http://www.astc.org/astc-dimensions/dimensions-septemberoctober-2017-codesign-for-transformation/	
23	2017/9/18	ASTC	North America	Co-Thinking: How We Collaborate	http://www.astc.org/ceo/co-thinking-collaborate/	
24	2017/9/24	ASTC	North America	Fellowships Available for Science Centre World Summit	http://www.astc.org/science-centre-world-summit/fellowships-available/	
25	2017/10/22	ASTC2017	North America	World Biotech Tour: 2015–2017 Meeting	https://astc.confex.com/astc/2017/webprogram/Session7297.html	
26	2017/11/15	World Biotech Tour	North America	Science Centre World Summit (SCWS) - Tokyo, Japan	http://www.worldbiotechtour.org/home	
27	2017/12/17	ASTC	North America	Three Years in the Making, the World Biotech Tour Ambassador Delegation	http://www.astc.org/science-centre-world-summit/world-biotech-tour-ambassadors-meet-in-japan/	
28		ECSITE	Europe	Share a story for International Science Center and Science Museum Day	http://www.ecsite.eu/activities-and-services/news-and-publications/share-story-international-science-center-and-science	
29		ECSITE	Europe	Mechelen Declaration: Public engagement for a better world	http://www.ecsite.eu/activities-and-services/resources/mechelen-declaration-public-engagement-better-world	
30		ECSITE	Europe	Call for proposals open for 2017 Science Centre World Summit	http://www.ecsite.eu/activities-and-services/news-and-publications/call-proposals-open-2017-science-centre-world-summit	
31		ECSITE	Europe	Tokyo Protocol	http://www.ecsite.eu/activities-and-services/resources/tokyo-protocol	
32		ECSITE	Europe	Science Centre World Summit: don't miss the early bird rate	http://www.ecsite.eu/members/members-share/news/science-centre-world-summit-dont-miss-early-bird-rate	

33		ECSITE	Europe	Fellowships for the SCWS2017	http://www.ecsite.eu/activities-and-services/news-and-publications/fellowships-scws2017	
34		ECSITE	Europe	Science Centre World Summit: what you need to know	http://www.ecsite.eu/activities-and-services/news-and-publications/science-centre-world-summit-what-you-need-know	
35	Apr. 2017 issue	Spokes #29	Europe	SCWS: REGISTRATION NOW OPEN	http://www.ecsite.eu/activities-and-services/news-and-publications/digital-spokes/issue-29	ecsite monthly magazine web version
36	Jun. 2017 issue	Spokes #31	Europe	SCWS: REGISTRATION NOW OPEN	http://www.ecsite.eu/activities-and-services/news-and-publications/digital-spokes/issue-31	ecsite monthly magazine web version
37	Nov. 2017 issue	Spokes #35	Europe	SCIENCE CENTRE WORLD SUMMIT STARTS THIS WEDNESDAY	http://www.ecsite.eu/activities-and-services/news-and-publications/digital-spokes/issue-35	ecsite monthly magazine web version
38	Dec. 2017 issue	Spokes #36	Europe	Echoes from the World Summit	http://www.ecsite.eu/activities-and-services/news-and-publications/digital-spokes/issue-36#section=section-lookout&href=/feature/lookout/echoes-world-summit	ecsite monthly magazine web version
39		ASPAC	Asia-Pacific	Upcoming ASPAC Conference, Science Centre World Summit (SCWS)	http://aspacnet.org/ns/conference	
40	2017/8/25	ASPAC	Asia-Pacific	Science Centre World Summit (SCWS) - Call for Proposals	http://www.aspacnet.org/ns/news-events/238-science-centre-world-summit-2017	
41		RedPOP	Asia-Pacific	Science Center World Summit 2017, CALL FOR PROPOSAL	http://www.redpop.org/science-center-world-summit-2017/	
42	2017/4/19	names	Near and Middle East, North Africa	Registration is now open for the Science Centers World Summit (SCWS)	http://www.namesnetwork.org/en/news/NewSDetail.aspx?type=InternationalEvents&Find=6200	
43	2017/9/27	names	Near and Middle East, North Africa	Fellowship for the SCWS2017	http://www.namesnetwork.org/en/news/NewSDetail.aspx?type=InternationalEvents&Find=7199	
44	2016/10/3	names	Near and Middle East, North Africa	Science Centre World Summit 2017: Call for a Proposal	http://www.namesnetwork.org/en/news/NewSDetail.aspx?type=InternationalEvents&Find=5202	
45	2017/11/7	names	Near and Middle East, North Africa	The Science Centers World Summit (SCWS 2017)	http://www.namesnetwork.org/en/news/Default.aspx?TYPE=InternationalEvents	
46	2017/5/17	SAASTEC	South Africa	SCWS2017 Update	https://saastec.co.za/2017/05/17/scws2017-update/	
47		Kopernikus	Poland	What is biotechnology and WBT?	http://www.kopernik.org.pl/en/projekty-specjalne/meetings-with-scientist/drogi-do-zycia/wbt/	
48	2017/11/7	Life	United Kingdom	Newcastle Science Centre chief spearheads UNESCO partnership and first ever world science centre day	https://www.life.org.uk/news/first-ever-world-science-centre-day	
49	2017/11/15	Science Center Singapore	Singapore	"Picture Happiness on Earth" TSUNAGARI Project	http://www.science.edu.sg/schoolprogrammes/Pages/phoe.aspx	
50		MUSEON	The Netherlands	Presentatie Museon tijdens openingsceremonie Science Centre World Summit 2017 in Tokio	http://www.museon.nl/nl/presentatie-museon-tijdens-openingsceremonie-science-centre-world-summit-2017-tokio	

Business websites

52		10 times	India/USA	Science Centre World Summit	https://10times.com/scws	Business event website
53		EXPO HOUR		About Science Centre World Summit	https://www.expohour.com/science-centre-world-summit	Expo website
54		ITV Asia	Hong Kong	Science Centre World Summit 2017	https://www.itv-asia.com/en/events/science-centre-world-summit-2017	Asian business news, market research
55		Research Bib		SCWS 2017 - Science Centre World Summit (SCWS)	http://conference.researchbib.com/view/event/49870	
56		event blocks		SCIENCE CENTRE WORLD SUMMIT	http://www.eventblocks.com/event/70844/science-centre-world-summit/	



SCWS 2017

Connecting the World
for a Sustainable Future

IN
TOKYO
2017.11.14^{TUE} - 17^{FRI}

The Science Centre World Summit (SCWS) is
a global meeting of professionals of science centres / museums
and their networks from around the world.

Venue, Host | National Museum of Emerging Science and Innovation (Miraikan)

The Geo-Cosmos, a "Globe-like display" with a diameter of 6 metres,
is the symbol exhibit of Miraikan.

Make Plans NOW for a Uniquely Innovative Experience !

What is SCWS2017?

The Science Centre World Summit (SCWS) is a global meeting of professionals of science centres / museums and their networks from around the world.

Why the Science Centre Summit: Leadership for Action

Science centres and museums are recognised worldwide as highly valued institutions engaging the public in science-based issues that impact our lives and the environment in which we live. Since 1996, leaders from science centres and museums around the world have met every three years on different continents to discuss current priorities and methods for public engagement in science and technology.

SCWS2017: “Connecting the World for a Sustainable Future”

This theme for SCWS2017 reflects the growing concerns of societies everywhere on critical issues impacting our lives and our planet – global warming, health and emerging infectious diseases, the challenges of aging populations, the strains of urban growth and stresses on our environment and our resources, and more. Collaboration involving all stakeholders is crucial to our collective welfare and prosperity.

Why Participate: Be Part of the Agenda for Action

SCWS2017 will be hosted by Miraikan in Tokyo, Japan, a preeminent institution in the global science centre community. SCWS2017 will build on the strong foundation of success of previous meetings, bringing together an even more inclusive and diverse community of professionals. Science centre and museum participants will exchange views with scientists, educators, policy and industry leaders, citizen's organizations, and other relevant stakeholders, and build partnerships to engage the public in addressing these important science-based challenges for society.



Date 2017.11.14 (Tue)–17 (Fri) **Please see the website for more information!** —————→ <http://scws2017.org>

Participating Networks

There are science centre / museum networks around the world that cooperate and collaborate to weave science and technology into the beautiful fabric of life, and thereby help the human community find answers.

ASPAC

Asia Pacific Network of
Science and Technology Centres

ASTC

Association of
Science-Technology Centers

Ecsite

European network of
science centres and museums

NAMES

North Africa and Middle
East Science centers network

RedPOP

Network for the Popularization of
Science and Technology
in Latin America and the Caribbean

SAASTEC

Southern African Association of
Science and Technology Centres



“AuthaGraph” World Map
is Used Here!

“AuthaGraph” invented by Japanese architect is
an innovative method which projects a 3D
sphere onto a 2D flat surface with less distortion.
©AuthaGraph 2014 All Rights Reserved

Inquiries

Contact | National Museum of Emerging Science and Innovation (Miraikan)

TEL | +81-3-3570-9207 FAX | +81-3-3570-9150 Email | international@miraikan.jst.go.jp



National Museum of Emerging Science and Innovation (Miraikan)
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From Haneda Airport
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■ By bus | about 20min.
■ By taxi | about 15min.

From Narita Airport
■ By train | about 2 hours
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■ By taxi | about 1 hour



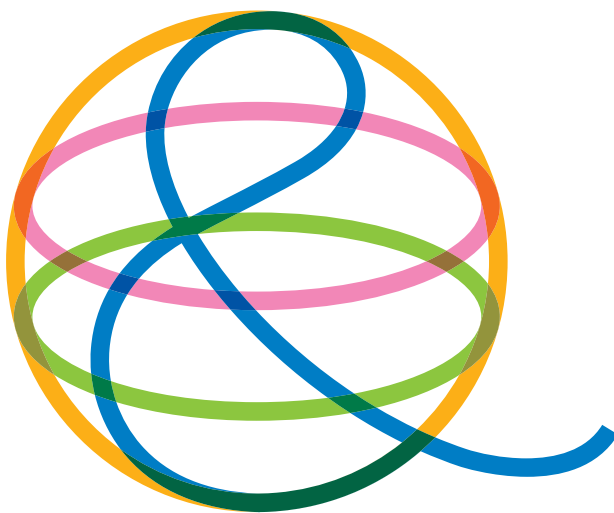
Annex 27



INTO TOKYO

2017.11.15[WED]-17[FRI]

National Museum of Emerging Science and Innovation (Miraikan) 2-3-6 Aomi, Koto-ku, Tokyo 135-0064



SCWS 2017

Connecting the World
for a Sustainable Future

SCWS = Science Centre World Summit

 **Miraikan**



SCWS 2017

Connecting the World
for a Sustainable Future

Date : November 15-17, 2017

Place : Tokyo, Japan

More info! : <http://scws2017.org>

The Science Centre World Summit (SCWS) assembles the world's science centres/ museums leaders, and society's professionals such as, government, industry, international institutions, and research/education communities to approach global issues. They recognise the importance of public engagement in science/technology to solve those issues. SCWS, initiated by science centres, is an innovative gathering to create long-term strategies on global issues through alliances/partnerships inclusive of all fields and seeks new partnerships and new roles for science centres.

National Museum of Emerging Science and Innovation (Miraikan) will host SCWS 2017 with the theme : "Connecting the World for a Sustainable Future" that will reflect on the concerns and issues impacting global warming, aging populations, urban growth, stresses on our environment/resources, and much more. SCWS 2017 builds on previous meetings with participants including professionals from science centres/museums, researchers, educators, policy makers, and industry leaders to exchange views on society's challenges. Leaders are invited to discuss,debate and learn about many initiatives towards a sustainable future!

OUTLINE

SCWS 2017 will be held over three days (plus one day for CEO Forum). The focus each day will be related to the theme "Connecting the World for a Sustainable Future" - complete with plenary sessions, panel discussions, poster sessions and parallel sessions.

14th Nov : CEO Forum (Invitation Only)

The CEO Forum is a one-day event with attendance limited to current CEOs of science centres and museums. It provides a unique opportunity to discuss identified issues of shared concern in an open and frank environment, with the added stimulus of a renowned futurist as the moderator/facilitator.

15th Nov : Global Sustainability

Science centres are, and aspire to be hubs connecting all entities in society, encompassing perspectives to find creative and collective solutions to global challenges. The first day provides opportunities to discuss the contribution of science centres to "sustainability" in all its forms in terms of local, regional and global challenges. Participants will share, collaborate, and co-create unique solutions to achieve goals.

16th Nov : Co-design for Transformation

Society needs to transform/evolve to address global sustainability. Science centres endeavor to encourage citizens and all society to partake in co-design to create and incorporate shared visions. The second day activates institutional discussions, involves all sectors, and harvests the collective intelligence of research organizations, businesses, the arts, education, policy makers, and citizens on how to best collaborate to achieve goals.

17th Nov : Personal Engagement with Science

Science centres need to further incorporate personal engagement to transform attitudes and behaviors to global challenges as science and technology changes at astonishing speed. The third day discusses how science centres can encourage a progressive, personal process that will enhance a centre's mission and generate new approaches towards personal transformation.

Message from the chair

I flew to space as an astronaut, and the view of our planet reminded me of the importance of the sustainability of our home, Earth. Currently, there are critical global issues facing all life, such as global warming, limited resources and the population explosion that will eventually reach over 10 billion people. What we can do is to collect all of humankind's wisdom to solve challenges and achieve sustainability. SCWS 2017 is for all leaders to create innovative answers along with science centres/museums to seek and to discover new partnerships that build long-term strategies for their new role in serving all people and sustaining our planet. This first Summit to be held in Asia will offer you new and unique experiences. Join us in discovery, collaboration, and camaraderie.

Honour Committee members

The Honour Committee is a patronage group consisting of world representatives from a wide variety of expertise who will contribute to the success of the SCWS 2017. The members of the Honour Committee will suggest or approach personalities that will help build new partnerships, connect key players and the science centre field, or disseminate the Summit's message to the world.

Dr. Rob Adam

Director, The Square Kilometre Array (SKA)

Dr. Peter Agre

Nobel Laureate in Chemistry (2003)/Bloomberg Distinguished Professor/Director, Johns Hopkins Malaria Research Institute, Johns Hopkins Bloomberg School of Public Health

Mr. Tadao Ando

Architect/Emeritus Professor, The University of Tokyo

Dr. Yuichiro Anzai

President, Japan Society for the Promotion of Science

Ms. Irina Bokova

Director-General, United Nations Educational, Scientific and Cultural Organization (UNESCO)

Dr. Ana María Cetto

Director, Museum of the Light UNAM

Dr. Franklin Chang-Diaz

Astronaut/CEO, Ad Astra Rocket Company

Dr. Cheng Donghong

Vice President, China Association for Science and Technology (CAST)/President, Chinese Association of Natural Science Museums (CANSM)

Prof. Anusuya Chinsamy-Turan

Palaeobiologist, University of Cape Town/TWAS 2013 winner of sub-Saharan Africa Prize for Public Understanding and Popularization of Science

Dr.E. William Colglazier

Editor-in-Chief of Science & Diplomacy and Senior Scholar in the Center for Science Diplomacy, American Association for Advancement of Science (AAAS)

Prof. Farouk El-Baz

Director, Center for Remote Sensing, Boston University

Dr. Fabiola Gianotti

Director- General, CERN

Mr. Kazuhiko Ishimura

Chairman, The Asahi Glass Foundation

Dr. Mae Jemison

Founder, The Jemison Group, Inc./Astronaut/ Physician/Engineer

Mr. Shuji Kanoh

President and Chief Operating Officer, Fuji Media Holdings, Inc.

Mr. Yukinori Kida

Chairman, NHK Symphony Orchestra, Tokyo

Mr. Tsuneo Kita

Chairman and group CEO, Nikkei Inc

Dr. Alan I. Leshner

CEO Emeritus, American Association for the Advancement of Science (AAAS)

Prof. Low Teck Seng

CEO, National Research Foundation, Prime Minister's Office of Singapore

Prof. Barry Marshall

Nobel Laureate in Physiology or Medicine (2005)/ The University of Western Australia

Prof. Gordon McBean

President, International Council for Science

Mr. Zenji Miura

President and CEO, Ricoh Company, Ltd.

Mr. Issey Miyake

Designer, MIYAKE DESIGN STUDIO

Dr. Phil Mjwara

Director General, the Department of Science and Technology - DST

Ms. Yoshiko Mori

Chairperson, Mori Art Museum

Ms. Hiroko Nakamura

Pianist

Dr. Takashi Onishi

President, Science Council of Japan

Dr. Mazlan Othman

Council Member, Academy of Sciences Malaysia/Former Head, United Nations Office for Outer Space Affairs (UNOOSA) from 1999-2002 and 2007-2013/Founding Director General for the National Space Agency of Malaysia

Sir Roger Penrose, O.M., F.R.S

Emeritus Rouse Ball Professor, Mathematics at the Mathematical Institute of the University of Oxford/ Emeritus Fellow, Wadham College



Mamoru Mohri, Ph. D.

Chairman,International Programme Committee of SCWS 2017/ Chief Executive Director, National Museum of Emerging Science and Innovation (Miraikan)

Dr. Eduardo Posada

President, Colombian Association for the Advancement of Science (ACAC)

Dr. María Teresa Ruiz

Director, Centre for Astrophysics and Associated Technologies (CATA), University of Chile

Dr. Sadayuki Sakakibara

Chairman, Keidanren/Chief Senior Advisor, Chief Senior Counselor of Toray Industries, Inc.

Prof. Brian Schmidt

Nobel Laureate in Physics (2011)/Vice-Chancellor, The Australian National University

Dr. Manju Sharma

Former Secretary Department of Biotechnology Govt. of India/Former President, National Academy of Sciences India & President and Executive Director of Indian Institute of Advanced Research

Dr. Hideki Shirakawa

Nobel Laureate in Chemistry (2000)/Professor Emeritus, University of Tsukuba/Doctor of Engineering

Ms. Atsuko Toyama

President, The Toyota Foundation/Former Minister, Education, Culture, Sports Science and Technology (2001-2003)

Dr. Vaughan C. Turekian

Science and Technology Adviser to the Secretary of State U.S. Department of State

Dr. Shinya Yamanaka

Nobel Laureate in Physiology or Medicine (2012)/ Director and Professor, Center for iPS Cell Research and Application, Kyoto University (CiRA) /Doctor of Medicine

Prof. Hiroyuki Yoshikawa

Chairman, The Japan Prize Foundation/Special Counselor to the President, Japan Science and Technology Agency/Doctor of Engineering

(March 16, 2016)

*You can find the latest list here.

→ <http://scws2017.org>

CONNECTING
THE WORLD FOR
A SUSTAINABLE
FUTURE



Mechelen Declaration

During the SCWS 2014 hosted by Technopolis® in Mechelen, Belgium, science centre leaders met with global policy makers, scientists and leading business representatives to exchange ideas about science, public engagement with science and the role that science communication and science centres should play in our rapidly changing society. With a continuing engagement to have impact, the science centre field crafted the Mechelen Declaration as a global action plan. Science centres and their partners committed themselves to the common goals of this plan towards the future. This Declaration will be discussed at the SCWS 2017.

You can find the full Declaration text here. —→ <http://scws2017.org>

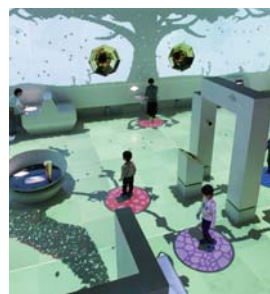


His Majesty King Philippe, King of Belgium

Venue

The National Museum of Emerging Science and Innovation (Miraikan) is a government owned, national museum in Tokyo, Japan. Miraikan is where people can understand the things happening in their world today from a scientific point of view, have discussions and consider the future that awaits. The Geo-Cosmos, the symbol exhibit of Miraikan depicting our shining Earth, enables visitors to feel the relations between the Earth and themselves and, eventually, leads visitors to think how they can sustain this beautiful planet. In addition, Miraikan offers exhibitions that provide people with a chance to experience science and technology through science workshops presented by Science Communicators, the Dome Theater and more. Visitors can encounter the technological progress of today that includes the global environment, space exploration, and amazing life on the Earth.

With over 400 years of history, Tokyo offers a fascinating blend of the old with temples, shrines, Kabuki and Noh theaters, and the very new in technology, fashion, and the arts all with an eye on the Olympics 2020. Tokyo enjoys an outstanding reputation regarding its hospitality, well-organized local transportation, cleanliness, safety, and fine food. Make your SCWS 2017 attendance a Tokyo adventure!



[Inquiries]

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Email: international@miraikan.jst.go.jp

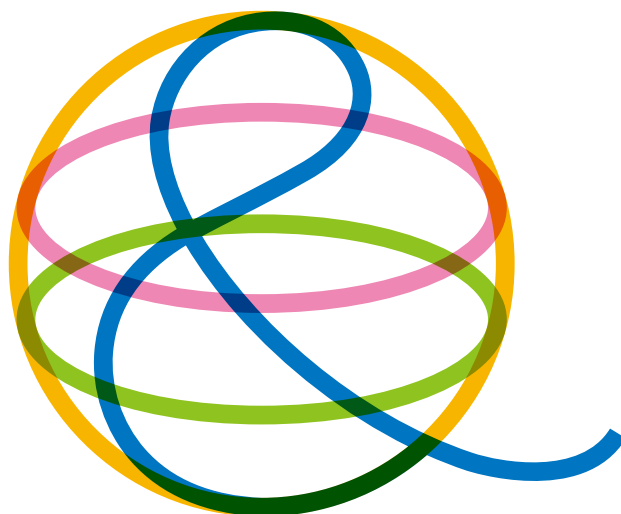


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SCWS 2017

Connecting the World
for a Sustainable Future



INTOKYO

2017.11.15^{WED} – 17^{FRI}

National Museum of Emerging
Science and Innovation (Miraikan)
2-3-6 Aomi, Koto-ku, Tokyo 135-0064

SCWS = Science Centre World Summit <https://scws2017.org>

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His Majesty King Philippe, King of Belgium signs the Mechelen Declaration.

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Inquiry

Secretariat for SCWS2017 (c/o Congress Corporation)

Kohsai-kaikan Bldg., 5-1 Kojimachi,

Chiyoda-ku, Tokyo 102-8481

TEL : +81-3-3263-2377

Email : info@scws2017.org



SCWS 2017
Connecting the World
for a Sustainable Future

TIME TABLE

	Day 0 Tue, 14 Nov.	Day 1 Wed, 15 Nov.	Day 2 Thu, 16 Nov.	Day 3 Fri, 17 Nov.	
8:00	Registration	Registration	Registration	Registration	8:00
9:00		Opening Ceremony (40min)	Keynote Speech 1 (35min)	Keynote Speech 1 (35min)	9:00
10:00	CEO Forum*	Keynote Speech 1 (40min)	Keynote Speech 2 (35min)	Keynote Speech 2 (35min)	10:00
11:00		Keynote Speech 2 (40min)	Coffee Break	Coffee Break	11:00
12:00	Lunch*	Marketplace Open/Coffee Break	Parallel Sessions (75 min) 1·2·3·4·5·6·7	Plenary Session (Panel) (75min)	12:00
13:00		Parallel Sessions (75 min) 1·2·3·4·5·6·7	Lunch (75min)	Lunch (75min)	13:00
14:00	CEO Forum*	Lunch (75min)	Special Session by ASPAC (60min)	Parallel Sessions (75 min) 1·2·3·4·5·6·7	14:00
15:00		Parallel Sessions (75 min) 1·2·3·4·5·6·7	Parallel Sessions (75 min) 1·2·3·4·5·6·7	Poster Session/Coffee Break	15:00
16:00		Half Plenary Session (75min)	Poster Session/Coffee Break	Summary Session (60min)	16:00
17:00		Half Plenary Session (75min)	Plenary Session (Panel) (75min)	Closing Ceremony (60min)	17:00
18:00	Welcome Reception	Poster Session/Coffee Break	Networking Time	Farewell Reception	18:00
19:00		Special Session on Action Plan (60min)			19:00
		Group Photo			
		Gala Dinner	Dinner		

*an exclusive forum for current CEOs (Directors, Presidents, and/or the most senior leader) of a science centre/museum, as well as CEOs of regional/national/international science centre/museum network organisations.

About SCWS2017

Official name	Science Centre World Summit 2017 (SCWS2017)
Period	15 to 17, November 2017 *Prior to SCWS2017, the CEO Forum will be convened on November 14 (Tue.), 2017 with attendance limited to current CEOs of science centres/museums.
Venue	National Museum of Emerging Science and Innovation (Miraikan) (2-3-6 Aomi, Koto-ku, Tokyo, Japan) http://www.miraikan.jst.go.jp/en/
Participants	Approximately 500 people from 50 countries around the world, including representatives of science centres/museums, universities, research institutions, governmental agencies, businesses, international institutions, NGOs/NPOs as well as science communication professionals and science journalists
Organiser	National Museum of Emerging Science and Innovation (Miraikan)
Co-organiser	Ministry of Education, Culture, Sports, Science and Technology -Japan
Sponsors	<div>  Ajinomoto Co.,Inc.(Platinum) </div> <div>  Kaneka Corporation(Platinum) </div> <div>  Ricoh Company, Ltd. (Platinum) </div> <div>  Kao Corporation(Gold) </div>



Date : November 15-17, 2017

Place : Tokyo, Japan

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National Museum of Emerging Science and Innovation (Miraikan) will host SCWS 2017 with the theme : "Connecting the World for a Sustainable Future" that will reflect on the concerns and issues impacting global warming, aging populations, urban growth, stresses on our environment/resources, and much more. SCWS 2017 builds on previous meetings with participants including professionals from science centres/museums, researchers, educators, policy makers, and industry leaders to exchange views on society's challenges. Participants discuss, debate and learn about many initiatives towards a sustainable future!

Theme & Topics

SCWS 2017 will be held over three days (plus one day for CEO Forum). The focus each day will be related to the theme "Connecting the World for a Sustainable Future" - complete with keynote speeches, plenary sessions, parallel sessions and poster sessions.

CEO Forum

The CEO Forum is a one-day event on 14th November with attendance limited to current CEOs of science centers/museums. It provides a unique opportunity to discuss identified issues of shared concern in an open and frank environment, with the added stimulus of a renowned futurist as the moderator/facilitator.

Topics

1. Global Sustainability

Science centres are, and aspire to be hubs connecting all entities in society, encompassing perspectives to find creative and collective solutions to global challenges. The first day provides opportunities to discuss the contribution of science centres to "sustainability" in all its forms in terms of local, regional and global challenges. Participants will share, collaborate, and co-create unique solutions to achieve goals.

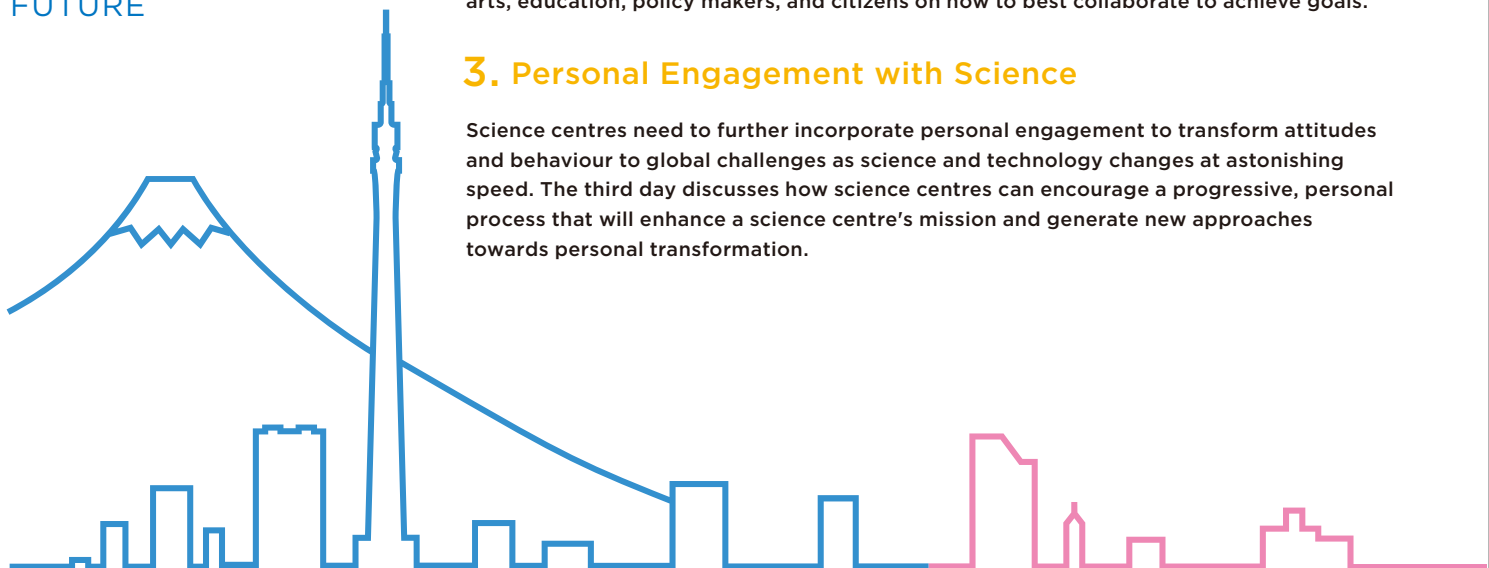
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Society needs to transform/evolve to address global sustainability. Science centres endeavour to encourage citizens and all society to partake in co-design to create and incorporate shared visions. The second day activates institutional discussions, involves all sectors, and harvests the collective intelligence of research organisations, businesses, the arts, education, policy makers, and citizens on how to best collaborate to achieve goals.

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Science centres need to further incorporate personal engagement to transform attitudes and behaviour to global challenges as science and technology changes at astonishing speed. The third day discusses how science centres can encourage a progressive, personal process that will enhance a science centre's mission and generate new approaches towards personal transformation.

CONNECTING
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Message from the Chair

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Chairman, International Programme Committee of SCWS 2017/ Chief Executive Director, National Museum of Emerging Science and Innovation (Miraikan)

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President, Japan Society for the Promotion of Science

Ms. Irina Bokova

Director-General, United Nations Educational, Scientific and Cultural Organization (UNESCO)

Dr. Ana María Cetto

Director, Museum of the Light UNAM

Dr. Franklin Chang-Díaz

Astronaut/CEO, Ad Astra Rocket Company

Dr. Cheng Donghong

Vice President, China Association for Science and Technology (CAST)/President, Chinese Association of Natural Science Museums (CANSM)

Prof. Anusuya Chinsamy-Turan

Palaeobiologist, University of Cape Town/TWAS 2013 winner of sub-Saharan Africa Prize for Public Understanding and Popularization of Science

Dr. E. William Colglazier

Editor-in-Chief of Science & Diplomacy and Senior Scholar in the Center for Science Diplomacy, American Association for Advancement of Science (AAAS)

Prof. Farouk El-Baz

Director, Center for Remote Sensing, Boston University

Dr. Fabiola Gianotti

Director-General, CERN

HRH Princess Sumaya bint El Hassan

President, The Royal Scientific Society, Jordan

Mr. Tamaki Imai

Chairman, NHK Symphony Orchestra, Tokyo

Mr. Kazuhiko Ishimura

Chairman, The Asahi Glass Foundation

Dr. Mae Jemison

Founder, The Jemison Group, Inc./Astronaut/Physician/Engineer

Mr. Shuji Kanoh

President and Chief Operating Officer, Fuji Media Holdings, Inc.

Mr. Tsuneo Kita

Chairman and group CEO, Nikkei Inc.

Dr. Alan I. Leshner

CEO Emeritus, American Association for the Advancement of Science (AAAS)

Prof. Low Teck Seng

CEO, National Research Foundation, Prime Minister's Office of Singapore

Prof. Barry Marshall

Nobel Laureate in Physiology or Medicine (2005)/The University of Western Australia

Prof. Gordon McBean

President, International Council for Science

Mr. Zenji Miura

Corporate Executive Advisor, Ricoh Company, Ltd.

Mr. Issey Miyake

Designer, MIYAKE DESIGN STUDIO

Dr. Phil Mjwara

Director General, the Department of Science and Technology - DST

Ms. Yoshiko Mori

Chairperson, Mori Art Museum

Dr. Takashi Onishi

President, Science Council of Japan

Dr. Mazlan Othman

Council Member, Academy of Sciences Malaysia/Former Head, United Nations Office for Outer Space Affairs (UNOOSA) from 1999-2002 and 2007-2013/Founding Director General for the National Space Agency of Malaysia

Sir Roger Penrose, O.M., F.R.S

Emeritus Rouse Ball Professor, Mathematics at the Mathematical Institute of the University of Oxford/ Emeritus Fellow, Wadham College

Dr. Eduardo Posada

President, Colombian Association for the Advancement of Science (ACAC)

Dr. María Teresa Ruiz

Director, Centre for Astrophysics and Associated Technologies (CATA), University of Chile

Dr. Sadayuki Sakakibara

Chairman, Keidanren/Chief Senior Advisor, Chief Senior Counselor of Toray Industries, Inc.

Prof. Brian Schmidt

Nobel Laureate in Physics (2011)/Vice-Chancellor, The Australian National University

Dr. Manju Sharma

Former Secretary Department of Biotechnology Govt. of India/Former President, National Academy of Sciences India & President and Executive Director of Indian Institute of Advanced Research

Dr. Hideki Shirakawa

Nobel Laureate in Chemistry (2000)/Professor Emeritus, University of Tsukuba/Doctor of Engineering

Mr. Chi-ming Shun

President, Commission for Aeronautical Meteorology (CAeM) of World Meteorological Organization/Director, Hong Kong Observatory

Dr. Hayat Sindi

Founder and CEO, the Institute for Imagination and Ingenuity (i2 institute)

Ms. Atsuko Toyama

President, The Toyota Foundation/Former Minister, Education, Culture, Sports Science and Technology (2001-2003)

Dr. Vaughan C. Turekian

Science and Technology Adviser to the Secretary of State U.S. Department of State

Dr. Shinya Yamanaka

Nobel Laureate in Physiology or Medicine (2012)/ Director and Professor, Center for iPS Cell Research and Application, Kyoto University (CiRA) /Doctor of Medicine

Prof. Hiroyuki Yoshikawa

Chairman, The Japan Prize Foundation/Special Counselor to the President, Japan Science and Technology Agency/Doctor of Engineering



Invited Speakers



Mr. Tadao Ando

**Architect/Professor Emeritus,
The University of Tokyo**

Mr. Ando was born in Osaka, Japan in 1941. He was self-educated in architecture and established Tadao Ando Architect & Associates in 1969. His representative works include "Church of the Light", Ibaraki, Osaka, "Modern Art Museum of Fort Worth", U.S.A. and "Punta della Dogana Contemporary Art Centre", Venice, Italy. He has been awarded many prizes; Annual prize, Architectural Institute of Japan for "Row House, Sumiyoshi" in 1979, The Pritzker Architecture Prize, U.S.A. in 1995, the Gold Medal of Union International des Architectes in 2005, and The Order of Culture, Japan in 2010. He has been a professor of The University of TOKYO since 1997 and a professor emeritus since 2003. He is also a founder of the Setouchi Olive Foundation dedicated to restoring the environment of the Seto Island Sea. He has been serving as the Committee Chairman of Momo-Kaki Orphans Fund Great East Japan Earthquake since 2011.



Prof. Gordon McBean

**President, The International
Council for Science (ICSU)**

Prof. Gordon McBean is President of the International Council for Science (ICSU), Co-Chair of the Governing Council for Future Earth: Research for Global Sustainability, and Professor Emeritus of Geography at Western University, London, Canada. He has been very active in international scientific programs: Chair (1988-94), World Climate Research Programme; Chair (2005-11) Integrated Research on Disaster Risk Program; President (2009-15), START International; and President (2000-2011), Canadian Foundation for Climate and Atmospheric Sciences. He is a member of the Orders of Canada and of Ontario; shares the Nobel Peace Prize (2007) as a major contributor to IPCC. He was awarded, in 2015: University of British Columbia Alumni Award of Distinction; American Geophysical Union Ambassador Award; and American Meteorological Society Cleveland Abbe Prize.



Prof. Johan Rockström

**Director of the Stockholm
Resilience Centre/
Professor of Water Systems
and Global Sustainability at
Stockholm University**

Director of the Stockholm Resilience Centre/Professor of Water Systems and Global Sustainability at Stockholm University. Johan Rockström is an internationally recognised scientist on global sustainability issues. In 2009, Johan and colleagues proposed the concept of nine "planetary boundaries", including climate change, ozone and biodiversity loss. They argued that if humanity crosses any of these boundaries we risk our long-term sustainability. This concept is now being explored and used by international organisations including the United Nations, WWF, Oxfam, and the World Business Council for Sustainable Development. In 2009, Johan was named "Swede of the Year". In 2012 and 2013 he was voted Sweden's most influential person on environmental issues. In 2015, Johan and colleagues published an update on the Planetary Boundaries research and presented the research in an unprecedented seven sessions at the World Economic Forum in Davos.



**HRH Princess
Sumaya bint El Hassan**

**President, The Royal
Scientific Society, Jordan**

HRH Princess Sumaya bint El Hassan is a leading advocate for science as a catalyst for change in the Arab World. The Princess has dedicated herself to engaging with scientists and policy makers, and to fostering an environment in which home-grown solutions can be found for pressing issues faced by Jordan and the region. The Princess is Chair of World Science Forum 2017, which will be held in Jordan.



**Lord Krebs Kt, MA,
DPhil, FRS, FMedSci,
Hon DSc**

**Honorary Fellow and Former
Principal, Jesus College,
University of Oxford**

Sir John Krebs completed the undergraduate degree in Zoology (1966) and DPhil (1970) at Pembroke College Oxford. He has been Fellow of the Royal Society since 1984. Between 2000 and 2005, he reconstructed the food-safety administration after BSE crisis as the first Chairman of the UK Food Standards Agency and recovered its trust of the public. He was created a life peer in 2007 and sits in the House of Lords. He was Chairman of the House of Lords Science and Technology Select Committee (2010-2014), Chairman of the UK Science and Technology Honours Committee (2008-2014). Between 2009 and 2017, he sat on the UK Climate Change Committee and chairs its Adaptation Sub-Committee. He was also President of the British Science Association (2012-2013).

*Please find the latest speakers' information on the website.

→ <https://scws2017.org>

Registration

Online Registration Deadline: 17:00, 27 Oct., 2017 (JST-Japan Standard Time)

Attendance Fee	JPY (tax included)		JPY (tax included)
Early Bird (on or before 15 Jul., 2017)	75,000	Student Rate	40,000
Advance Rate (16 Jul. to 15 Oct., 2017)	85,000	Student Rate One-day	16,000
Regular Rate (on or after 16 Oct. to 27 Oct., 2017 / Onsite)	95,000	Residents of low-GNI Nations Rate	60,000

*If you have any questions about the payment and the cancellation, please contact → secretariat@scws2017.org

Novelties

Washcloth



Candy



Air vase



Plastic sleeve bag

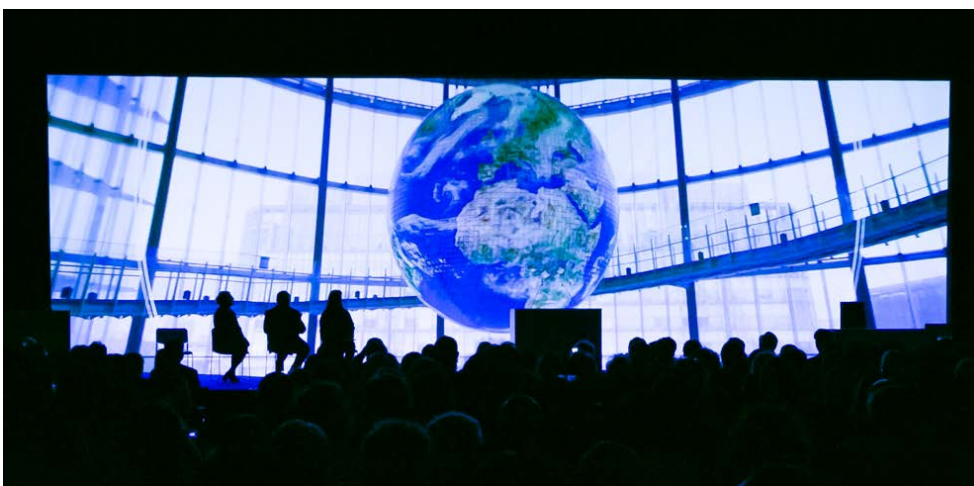


Pen



Items

1. Opening movie



2. SCWS2017 app



3. Signboards

<Happoen>

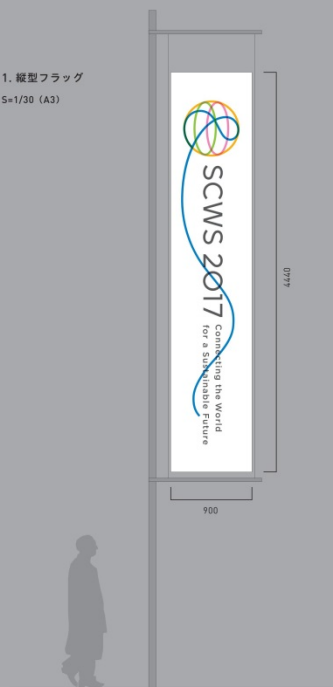


<Miraikan>



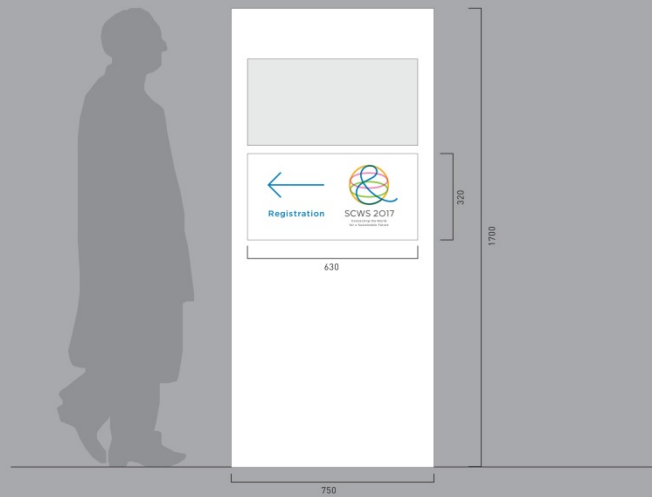
1. 縦型フラッグ

S=1/30 (A3)



4. 地下駐 EV 前 誘導サイン

S=1/10 (A3)



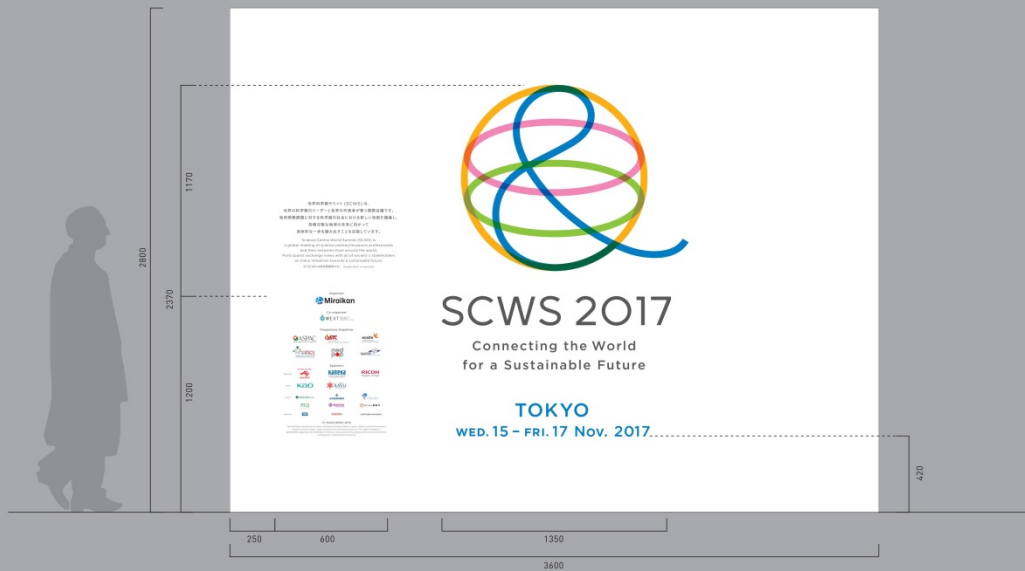
2. 屋外ウェルカムサイン

S=1/10 (A3)



SCWS サイン計画
5. 1 階壁面サイン
S=1/15 (A3)

HDO 11 08

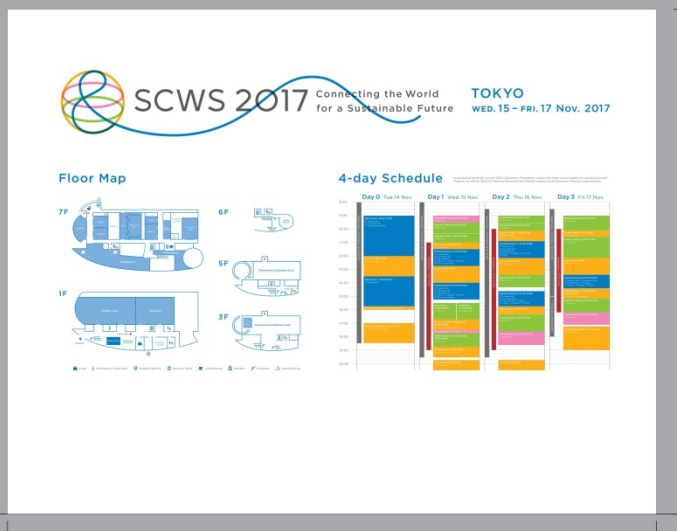


SCWS サイン計画

HDO 11 02

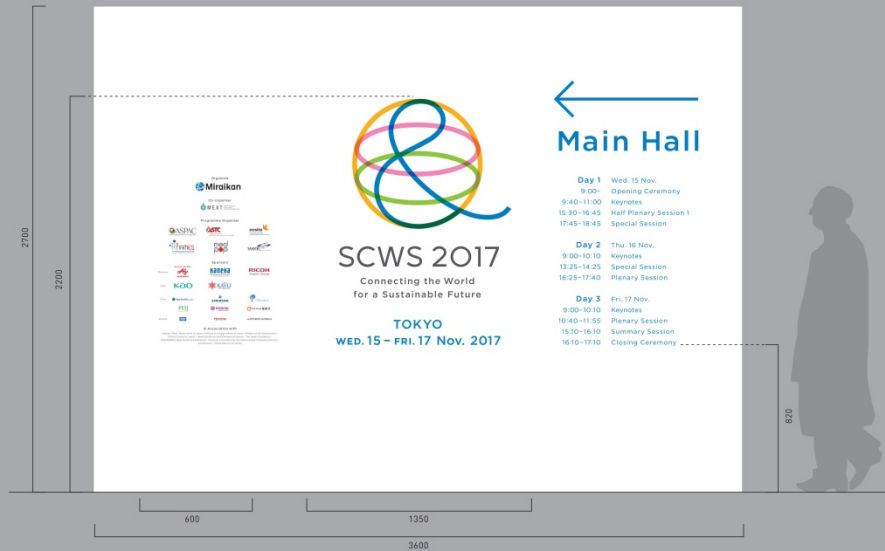
6. プログラム壁面サイン
S=1/15 (A3)

ブック最新データ
受領後
送付予定



SCWS サイン計画
7. メイン会場 (exb)
壁面サイン
S=1/15 (A3)

HDD 11 08



SCWS サイン計画

HDD 11 02

8. 内証式サイン
S=1/10 (A3)



9. 受付カウンター（4ブース連続）

S=1/10（A3）



9. 受付カウンター（1ブース×2）

S=1/10（A3）

10. 受付分類サイン（B5サイズ出力）

S=1/10（A3）



11. 1F EV ホール案内サイン

S=1/2 (A3)

Day 0

Day 1

Day 0 Tue. 14 Nov.**7F** CEO Forum
Welcome Reception**3F** Newcomers' Gathering**SCWS 2017**
Connecting the World
for a Sustainable Future**Day 1** Wed. 15 Nov.**7F** Half Plenary Session 2
Parallel Sessions, Poster Sessions
Marketplace
Coffee Break, Tea Ceremony
Dressing Room**6F** Parallel Session**3F** Parallel Sessions
Photo Session
Cocktail Hour**1F** Opening Ceremony
Keynotes, Half Plenary Session 1
Special Session
Lunch, Gala Dinner**SCWS 2017**
Connecting the World
for a Sustainable Future

420

297

11. 1F EV ホール案内サイン

S=1/2 (A3)

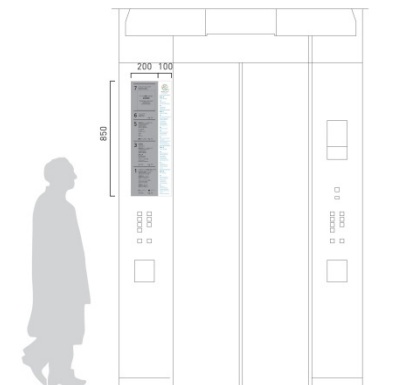
Day 2

Day 3

Day 2 Thu. 16 Nov.**7F** Parallel Sessions
Poster Sessions
Marketplace
Coffee Break
Tea Ceremony
Networking Time**1F** Keynotes
Plenary Session
Special Session
Lunch**SCWS 2017**
Connecting the World
for a Sustainable Future**Day 3** Fri. 17 Nov.**7F** Parallel Sessions
Poster Sessions
Marketplace
Coffee Break
Tea Ceremony**1F** Keynotes
Plenary Session
Summary Session
Closing Ceremony
Lunch
Farewell Reception**SCWS 2017**
Connecting the World
for a Sustainable Future

12. EV 内案内サイン

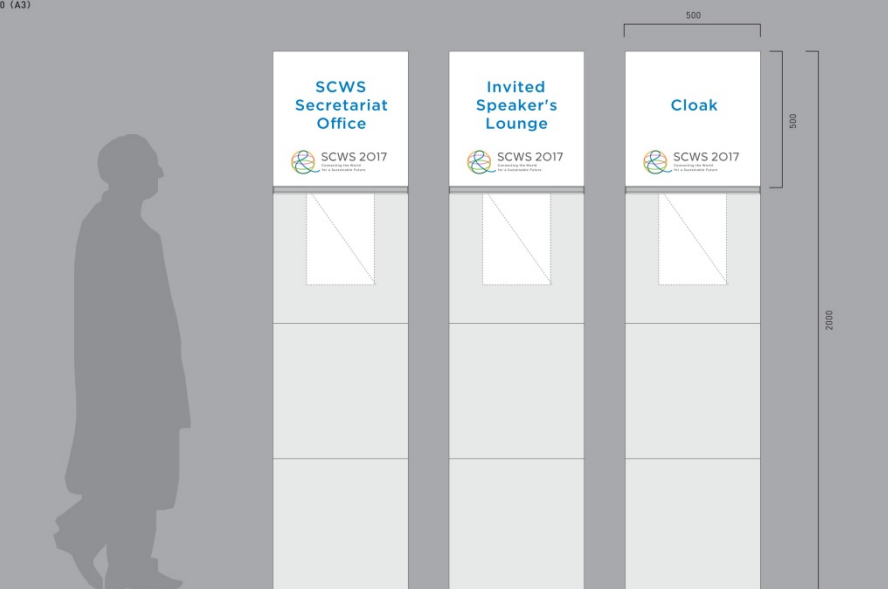
S=1/20 (A3)



SCWS 2017	
7	コミュニケーションフロア Communication Floor 1F 10:00-18:00
イベント開催にともない 終日貸切 Closed due to the event entire floor Wed 10:00-18:00	
6	パネリストアワー Panelist Hour 1F 14:00-15:00
5	登録参加ゾーン/聴衆者エリア Registration Zone / Audience Area 1F 10:00-18:00 2F 10:00-18:00 3F 10:00-18:00 4F 10:00-18:00 5F 10:00-18:00 6F 10:00-18:00 7F 10:00-18:00 8F 10:00-18:00 9F 10:00-18:00 10F 10:00-18:00 11F 10:00-18:00 12F 10:00-18:00 13F 10:00-18:00 14F 10:00-18:00 15F 10:00-18:00 16F 10:00-18:00 17F 10:00-18:00 18F 10:00-18:00 19F 10:00-18:00 20F 10:00-18:00 21F 10:00-18:00 22F 10:00-18:00 23F 10:00-18:00 24F 10:00-18:00 25F 10:00-18:00 26F 10:00-18:00 27F 10:00-18:00 28F 10:00-18:00 29F 10:00-18:00 30F 10:00-18:00 31F 10:00-18:00 32F 10:00-18:00 33F 10:00-18:00 34F 10:00-18:00 35F 10:00-18:00 36F 10:00-18:00 37F 10:00-18:00 38F 10:00-18:00 39F 10:00-18:00 40F 10:00-18:00 41F 10:00-18:00 42F 10:00-18:00 43F 10:00-18:00 44F 10:00-18:00 45F 10:00-18:00 46F 10:00-18:00 47F 10:00-18:00 48F 10:00-18:00 49F 10:00-18:00 50F 10:00-18:00 51F 10:00-18:00 52F 10:00-18:00 53F 10:00-18:00 54F 10:00-18:00 55F 10:00-18:00 56F 10:00-18:00 57F 10:00-18:00 58F 10:00-18:00 59F 10:00-18:00 60F 10:00-18:00 61F 10:00-18:00 62F 10:00-18:00 63F 10:00-18:00 64F 10:00-18:00 65F 10:00-18:00 66F 10:00-18:00 67F 10:00-18:00 68F 10:00-18:00 69F 10:00-18:00 70F 10:00-18:00 71F 10:00-18:00 72F 10:00-18:00 73F 10:00-18:00 74F 10:00-18:00 75F 10:00-18:00 76F 10:00-18:00 77F 10:00-18:00 78F 10:00-18:00 79F 10:00-18:00 80F 10:00-18:00 81F 10:00-18:00 82F 10:00-18:00 83F 10:00-18:00 84F 10:00-18:00 85F 10:00-18:00 86F 10:00-18:00 87F 10:00-18:00 88F 10:00-18:00 89F 10:00-18:00 90F 10:00-18:00 91F 10:00-18:00 92F 10:00-18:00 93F 10:00-18:00 94F 10:00-18:00 95F 10:00-18:00 96F 10:00-18:00 97F 10:00-18:00 98F 10:00-18:00 99F 10:00-18:00 100F 10:00-18:00

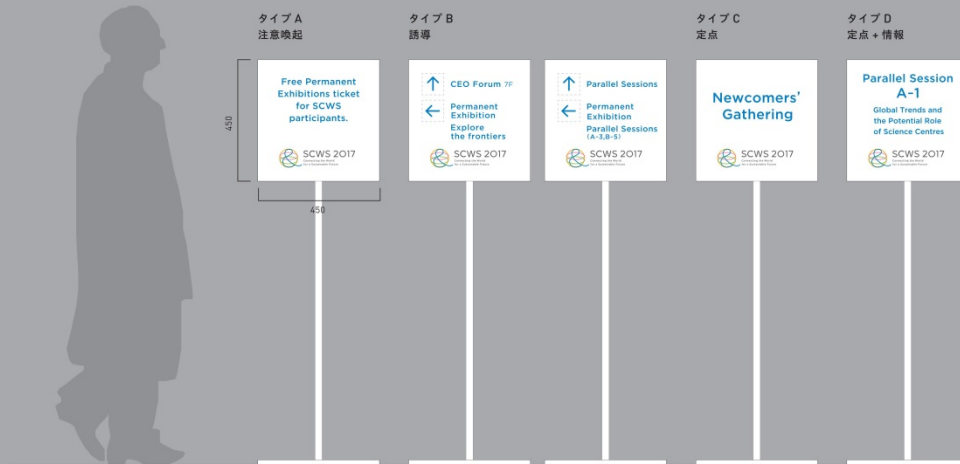
14. 1F 部屋サイン

S=1/10 (A3)



15. 450 角 案内サイン

S=1/10 (A3)



16. CEO フォーラム各部屋グループサイン

S=1/5 (A3)

A3 (420×297)



A5 (210×148)



17. Parallel Session 部屋サイン

S=1/5 (A3)

A3 (420×297)



A5 (210×148)



18. Parallel Session 誘導サイン

S=1/5 (A3)

A3 (420×297)



A5 (210×148)



19. CEO フォーラム グループ卓上サイン

S=1/5 (A3)

A5 (210×148)



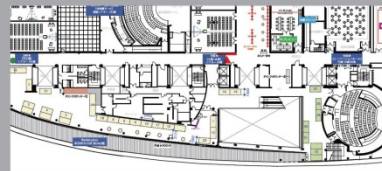
20. Market Place サイン

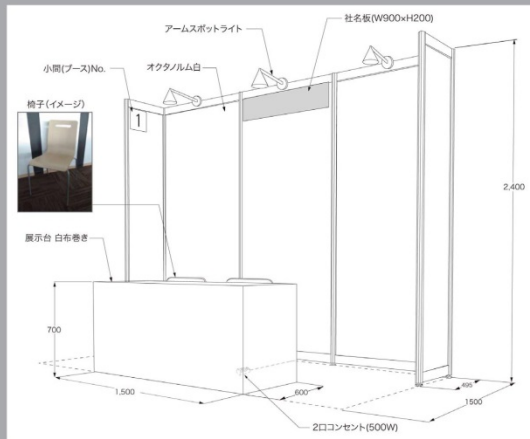
S=1/10 (A3)



25. 7F SCWS タイトルサイン

S=1/15 (A3)





21. Market Place 社名板

S=1/10 (A3)

3 行タイプ

National Astronomical Observatory
of Japan (NAOJ),
National Institutes of Natural Sciences (NINS)

2 行タイプ

ARTSCIENCE MUSEUM™
AT MARINA BAY SANDS®, SINGAPORE

1 行タイプ

文字数多

Natural History Museum, London

1 行タイプ

文字数少

Evonik

900

200

22. Market Place 小間 NO.

24. ポスターセッション NO.

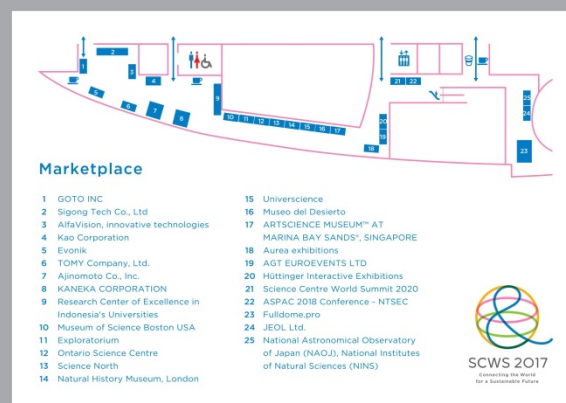
S=1/10 (A3)



23. Market Place ブース MAP

A5 サイズ

原寸 (A3)



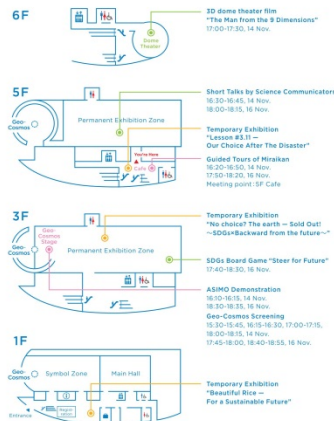
26. 常設展示 開館時間サイン
A1 スタンド

紙大
S=1/4 (A3)

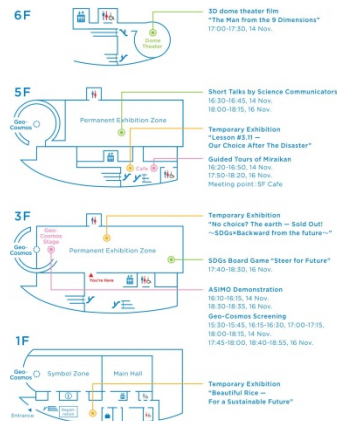
3 階

5 階

Parallel Events in Miraikan for the SCWS2017 Participants



Parallel Events in Miraikan for the SCWS2017 Participants



4. Digital signage



Connecting the World
for a Sustainable Future

TOKYO
Wed. 15 - Fri. 17 Nov. 2017


Current Events

10:20-11:00 1F Main Hall
[Keynote]
Keynote Session

11:00-11:30 7F Marketplace
[Market/Break]
Marketplace Open / Coffee Break

11:30-12:45 7F Innovation Hall
[ParallelA-1]
Global Trends and the Potential Role of Science Centres

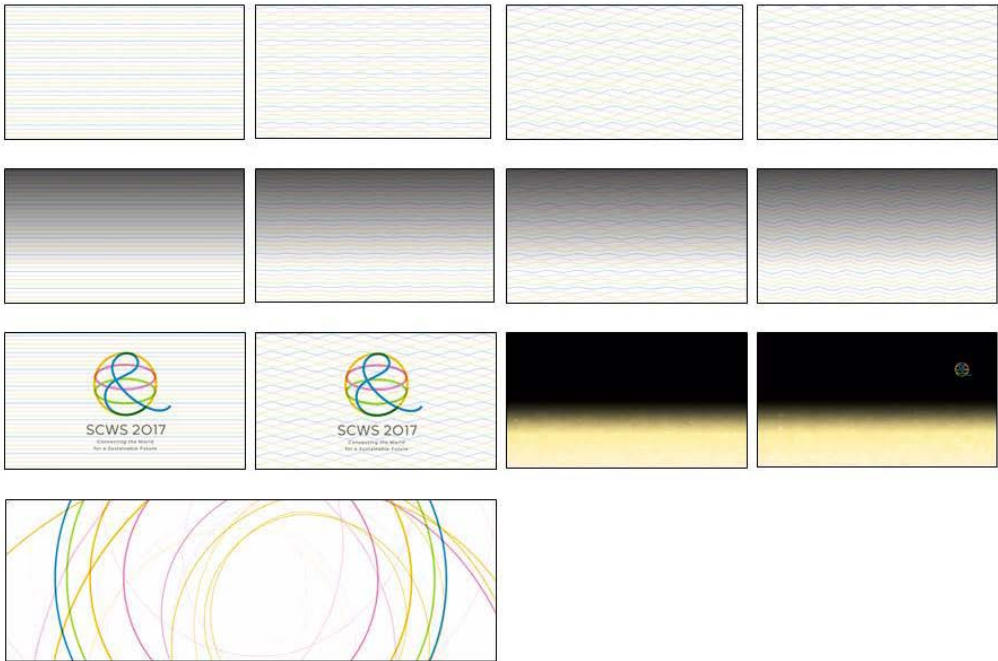
Wednesday 15
November



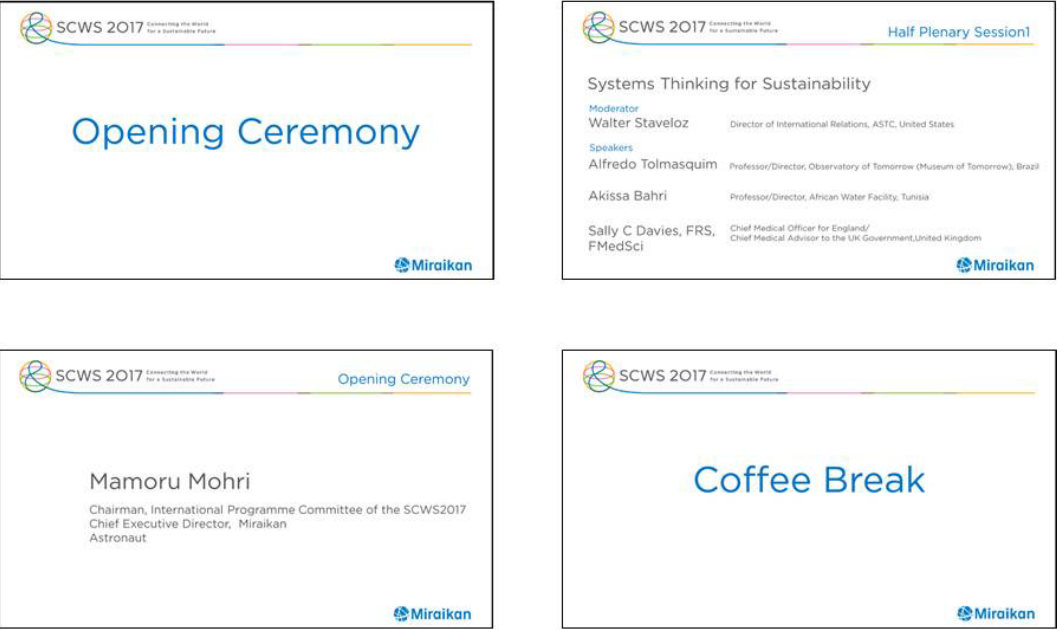
Floor Map



5. Screen image



6. Screen format



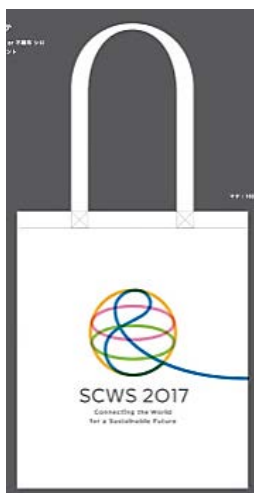
7. Pin badge



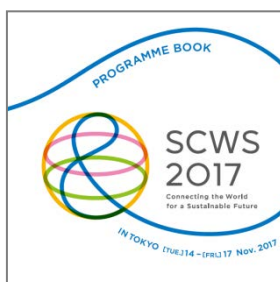
8. Handover memento



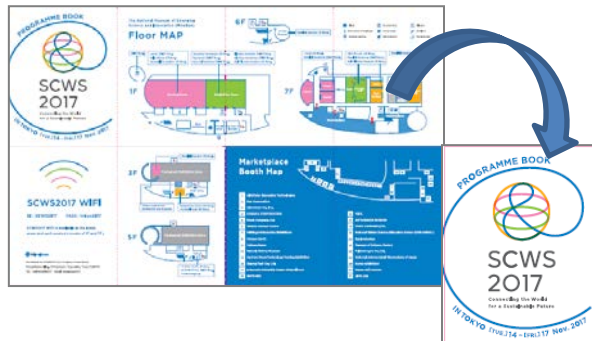
9. Congress bag



10. Programme book



11. Pocket guide



12. ID Strap



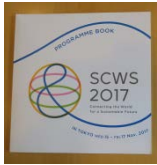



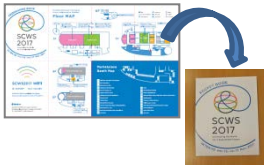









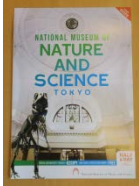


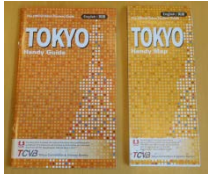
13. Memo pad



14. Pen with SCWS2017 logo



15. Congress kit

 <p>Congress bag</p>	 <p>Memo pad</p>	 <p>Plastic sleeve</p>
 <p>Pen with SCWS2017 logo</p>	 <p>Pocket guide</p>	 <p>Map of Miraikan</p>
 <p>Tsunagari reaflet from Miraikan</p>	 <p>Sponsor's brochure 1</p>	 <p>Sponsor's brochure 2</p>
 <p>Related organization's brochure 1</p>	 <p>Related organization's brochure 2</p>	 <p>Related organization's brochure 3</p>
 <p>Related organization's brochure 4</p>	 <p>Related organization's brochure 5</p>	 <p>Related organization's brochure 6</p>
 <p>Gift from related organization 1</p>	 <p>Gift from related organization 1</p>	 <p>Tokyo guide</p>

Annex 30

■ Gala Dinner Programme

Time	Lap	Scene	Action
19:15	30'	Doors open	
19:45	1'	Dinner starts	<ul style="list-style-type: none"> The MC announces the start of dinner.
19:46	3'	Greetings from the organiser	Mamoru Mohri, Chair, SCWS2017 International Programme Committee
19:49	15'	Short presentation	Shinya Yamanaka, Director and Professor, Center for iPS Cell Research and Application, Kyoto University
20:04	3'	Toast	Atsuko Toyama, Chair, SCWS2017 SCWS2017 Honour Committee
20:07	94'	Social interaction and dinner	
21:41	3'	Closing address	Yoshimasa Hayashi, Minister of Education, Culture, Sports, Science and Technology
21:44	1'	Dinner ends	

12 Nov. 2017 (Sunday): Setup day

2018/4/5

Floor			Venue	Use	Time																							
1+ Outside			Outside		8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	1:00	2:00					
1	Geo-Cosmos																											
	Symbol Zone	Symbol Zone	Gala Dinner																									
		Special exhibition zone a	Lunch Coffee Break																									
	Main hall		Keynote 1 and 2 Plenary Session																									
	Guest booth		Speaker lounge																									
	Multipurpose room a		Executive secretariat																									
	Multipurpose room b		Cloak																									
	Symbol office		Staff antechamber																									
	UNI-CUB Station		Reception, conference bag distribution desk																									
	Counter (former general guidance)		Information Desk Travel Desk																									
Communication Lobby		Rice exhibition (11/11 to 8/1)																										
2	Meeting room 1		Antechamber																									
	Meeting room 2		Antechamber																									
	Meeting room 3		Antechamber																									
	Reception room		Reception room																									
	VIP room		VIP room																									
3	Large meeting room (313)		Staff antechamber																									
	In front of general guidance																											
	In permanent exhibition: Geo-Cosmos Stage		Activity, Parallel Session																									
	In permanent exhibition: In front of Backward from the		Activity																									
	In permanent exhibition: Science Workshop		Activity																									
5	Research building		Activity																									
	In permanent exhibition: Co-Studio		Activity																									
	In permanent exhibition: In front of LE-7A		Activity																									
	Miraikan Café		Café operation																									
7	Seminar space		Palace Hotel antechamber																									
	Miraikan Hall		CEO Forum/Parallel Session/ Half Plenary Session/Closing Ceremony																									
	Innovation Hall		Parallel Session																									
	Uranus (Meeting room 1)		Parallel Session																									
	Saturn (Meeting room 2)		Parallel Session																									
	Jupiter (Meeting room 3)		Parallel Session																									
	Neptune (Meeting room 4)		Palace Hotel temporary pantry																									
	Mercury		CEO Forum Parallel Session																									
	Mars		CEO Forum Parallel Session																									
	Venus		CEO Forum Parallel Session																									
	Lobby 1		Poster Session																									
	Lobby 2		Tea centre Tea Ceremony																									
	Studio		7F Exhibitor, poster panel participant antechamber																									
	Studio equipment storeroom 2		Equipment storage PC preview room																									
	Antechamber Moon		Antechamber																									
	Antechamber Phobos		Tea centre pantry/antechamber																									
	Antechamber Deimos		Antechamber																									
	Antechamber Io		Antechamber																									
	Antechamber Europa		Antechamber																									
	Antechamber Ganymede		Antechamber																									
Antechamber Titan		Antechamber																										
Antechamber Triton		Antechamber																										
View lounge		Marketplace, Coffee Break and Welcome Reception (14/11)																										
Dome Theatre		Parallel Session																										

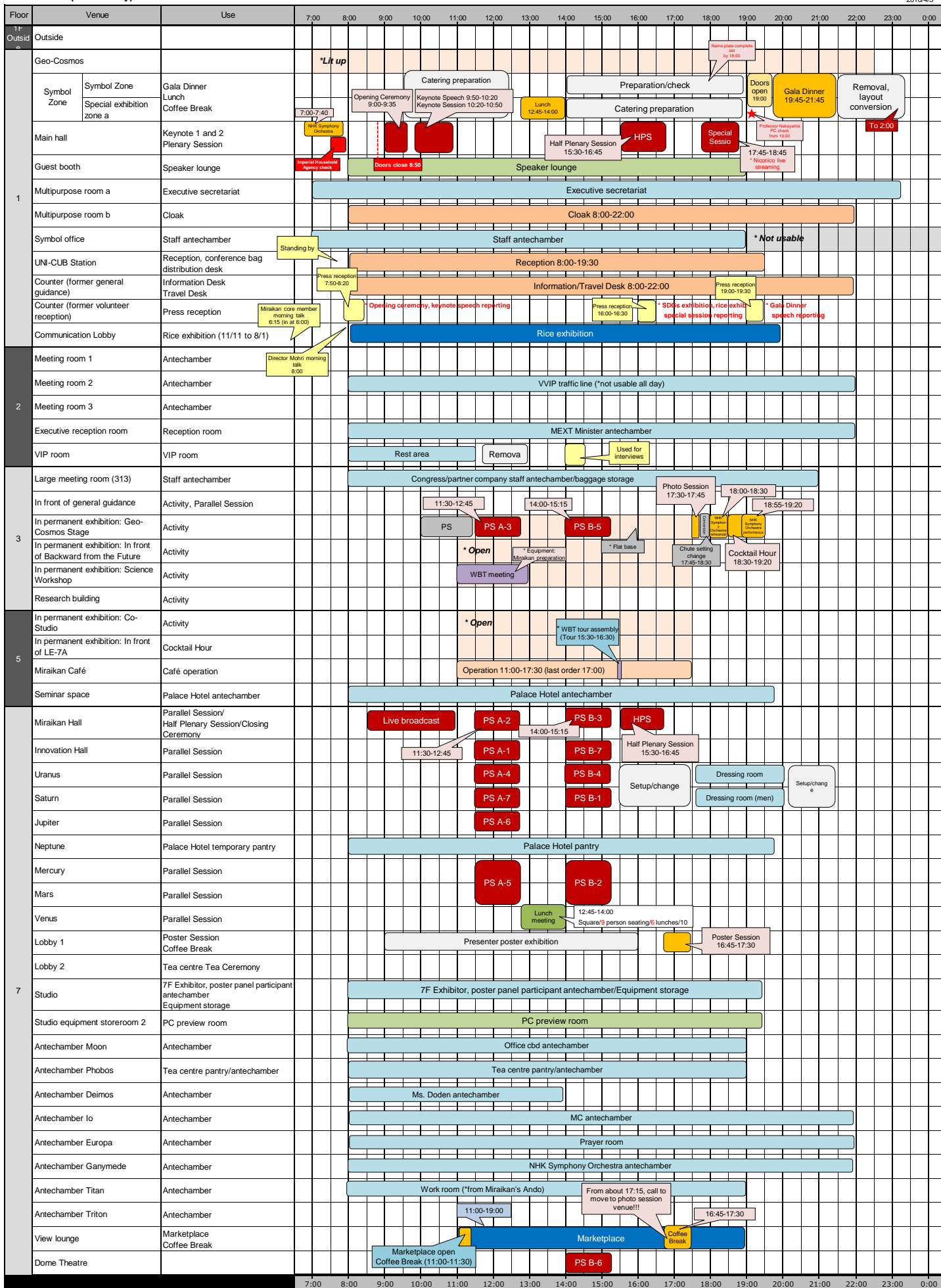
13 Nov. 2017 (Monday): Setup day

2018/4/5

Floor	Venue		Use	2018-13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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14 Nov. 2017 (Tuesday)

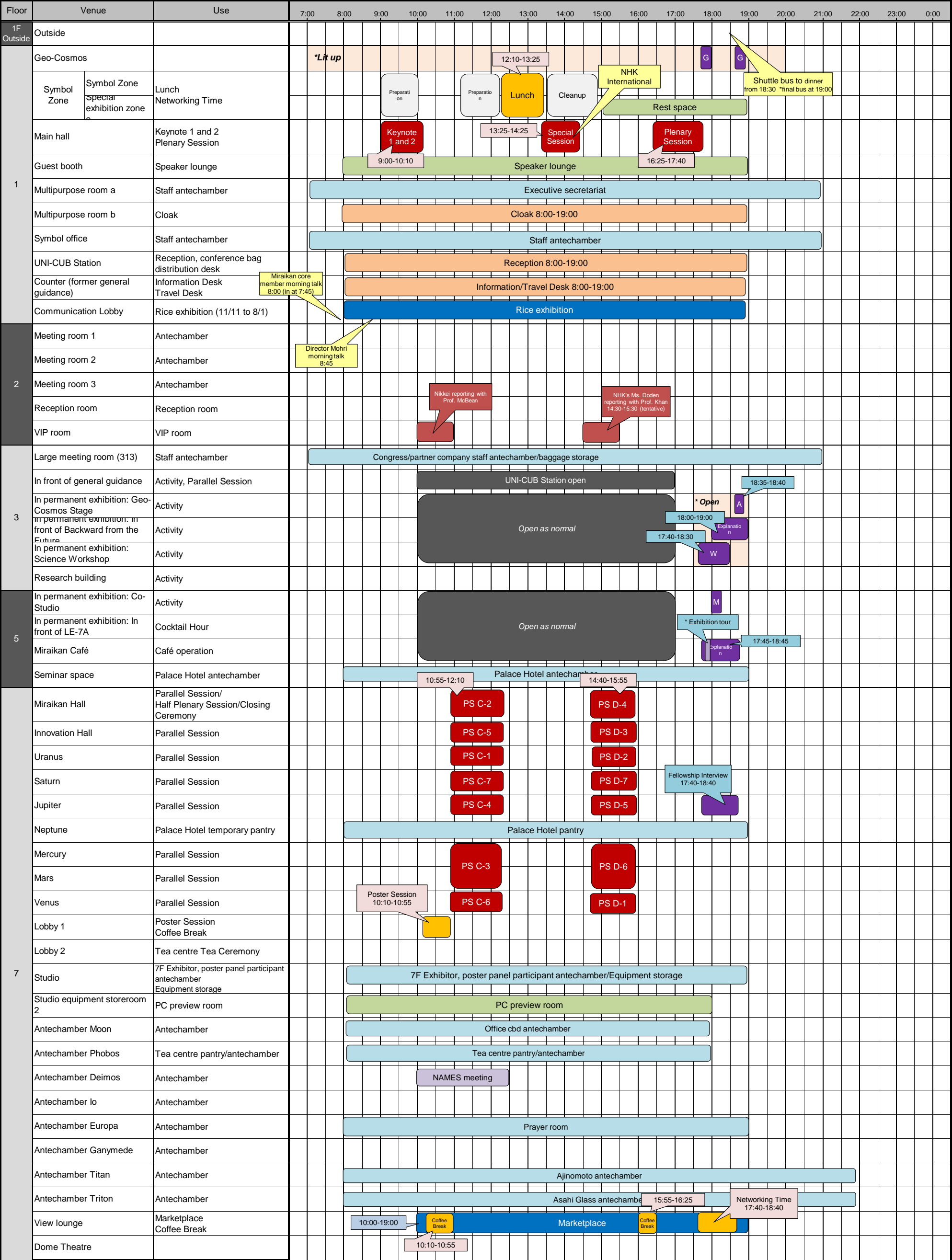
[illegible]



■ SCW S2017 Venue Use Plan

16 Nov. 2017 (Thursday)

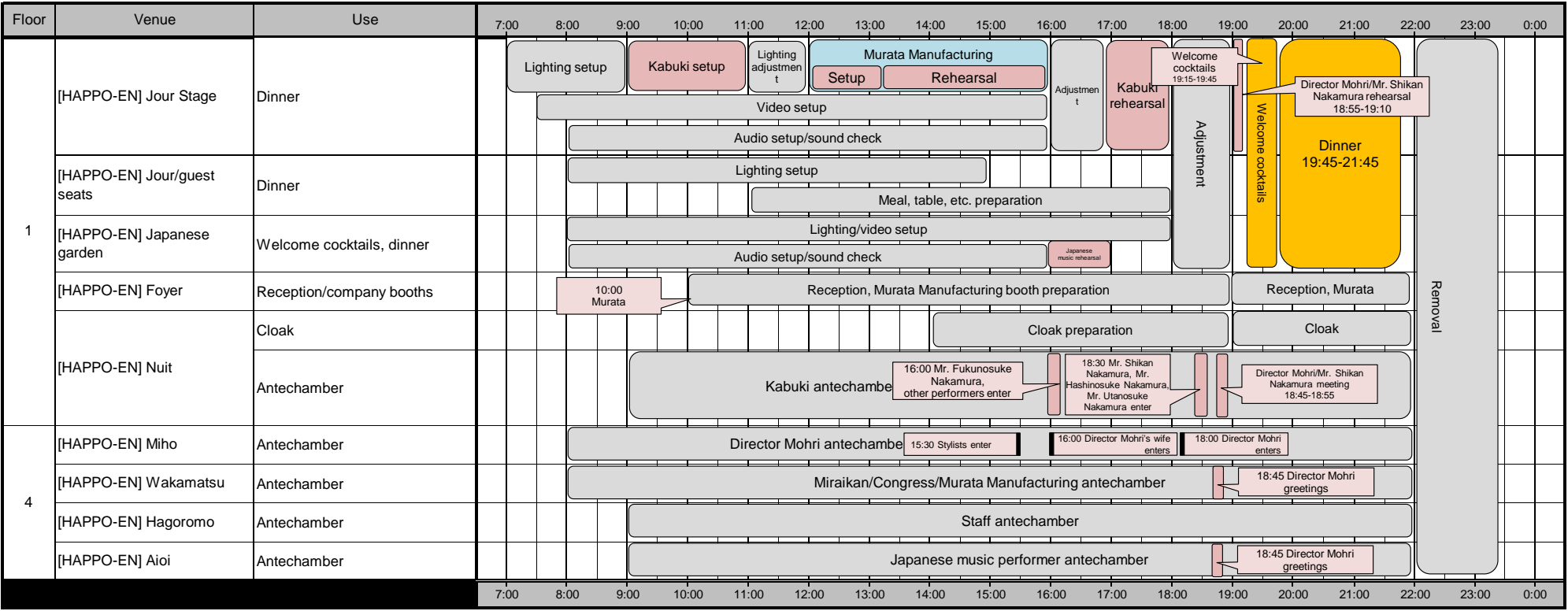
2018/4/5



■ SCW S2017 Venue Use Plan

16 Nov. 2017 (Thursday)

2018/4/5



Floor	Venue		Use	2016/11/15																							
1 st Outside	Outside																										
1	Geo-Cosmos			*Lit up																							
	Symbol Zone	Symbol Zone Special exhibition zone	Lunch Networking Time	Mexico rehearsal Preparation Lunch 11:55-13:10 Setup/preparation Ball-shaped lighting setup 17:15-19:00 Farewell Reception Dismantling From																							
	Main hall		Keynote 1 and 2 Plenary Session	Keynote 1 and 2 Plenary Session Summary Session 15:10-16:10 SS Closing Ceremony Dismantling From																							
	Guest booth		Speaker lounge	Doors open 8:30 9:00-10:10 10:40-11:55 Speaker lounge 16:10-17:10 Dismantling																							
	Multipurpose room a		Staff antechamber	Executive secretariat Dismantling																							
	Multipurpose room b		Cloak	Cloak 8:00-19:30 Dismantling																							
	Symbol office		Staff antechamber	Staff antechamber Dismantling																							
	UNI-CUB Station		Reception, conference bag distribution desk	Reception 8:00-16:30 Dismantling																							
	Counter (former general guidance)		Information Desk Travel Desk	Miraikan core member morning talk 7:30 Information/Travel Desk 8:00-18:00 Dismantling																							
	Communication Lobby		Rice exhibition (11/11 to 8/1)	Rice exhibition																							
	2	Meeting room 1		Antechamber	Director Mohr morning talk 8:00																						
Meeting room 2		Antechamber																									
Meeting room 3		Antechamber	Summary Session meeting 6 box lunches (w/speakers = Ms. Doden) *Time adjusted																								
Reception room		Reception room																									
VIP room		VIP room																									
3	Large meeting room (313)		Staff antechamber	Congress/partner company staff antechamber/baggage storage																							
	In front of general guidance		Activity	UNI-CUB Station open																							
	In permanent exhibition: Geo-Cosmos Stage		Activity																								
	In permanent exhibition: in front of Backward from the Future		Activity	Open as normal																							
	In permanent exhibition: Science Workshop		Activity																								
5	Research building		Activity																								
	In permanent exhibition: Co- Studio		Activity																								
	In permanent exhibition: In front of LE-7A		Cocktail Hour	Open as normal																							
	Miraikan Café		Café operation																								
	Seminar space		Palace Hotel antechamber	Palace Hotel antechamber																							
7	Miraikan Hall		Closing Ceremony	13:10-14:25 PS E-2 Dismantling																							
	Innovation Hall		Parallel Session	PS E- Dismantling																							
	Uranus		Parallel Session	PS E-4 SAKURA Science completion ceremony 18:00-19:00 Dismantling																							
	Saturn		Parallel Session	PS E-6 17:45-18:45 Square/30 people BigPAD used IPC meeting *Layout as is Dismantling																							
	Jupiter		Parallel Session	PS E-5																							
	Neptune		Palace Hotel temporary pantry	Palace Hotel pantry Dismantling																							
	Mercury		Parallel Session	PS E-1 12:00-13:30 Square/12 people 12 box lunches, coffee (self serve) ASPAC executive meeting Dismantling																							
	Mars		Parallel Session	Dismantling																							
	Venus		Parallel Session	Poster Session 14:25-15:10 Presenters dismantling Overall dismantling																							
	Lobby 1		Poster Session Coffee Break																								
7	Lobby 2		Tea centre Tea Ceremony																								
	Studio		7F Exhibitor, poster panel participant antechamber	7F Exhibitor, poster panel participant antechamber/Equipment storage																							
	Studio equipment storeroom 2		Equipment storage	PC preview room																							
	Antechamber Moon		Antechamber	Office cbd antechamber Removal																							
	Antechamber Phobos		Tea centre pantry/antechamber	Tea centre pantry/antechamber																							
	Antechamber Deimos		Antechamber	NAMES																							
	Antechamber Io		Antechamber	Work room (*from Miraikan's Ando)																							
	Antechamber Europa		Antechamber	Prayer room																							
	Antechamber Ganymede		Antechamber	Ms. Doden antechamber																							
	Antechamber Titan		Antechamber	Ajinomoto antechamber																							
	Antechamber Triton		Antechamber	Asahi Glass antechamber																							
	View lounge		Marketplace Coffee Break	10:00-16:10 Coffee Break 14:25-15:10 Exhibitors dismantling Overall dismantling - 4:00																							
	Dome Theatre			10:10-10:40 Coffee Break																							

SCWS 2017 Shuttle Bus Service Schedule

14 November

- Timetable: Arrivals at the venue from 8:15 to 8:45

Shuttle No.	Grand Nikko Tokyo Daiba	Miraikan - The National Museum of Emerging Science and Innovation	Total no. of passengers
Time required to Miraikan - The National Museum of Emerging Science and Innovation	5 minutes		
1-①	Departs at 8:10	Arrives at 8:15	1
1-②	Departs at 8:25	Arrives at 8:30	10
1-③	Departs at 8:40	Arrives at 8:45	7

Shuttle No.	Tokyo Bay Ariake Washington Hotel	Hotel Sunroute Ariake	Hotel Trusty Tokyo Bayside	Miraikan - The National Museum of Emerging Science and Innovation	Total no. of passengers
Time required to Miraikan - The National Museum of Emerging Science and Innovation	15 minutes	10 minutes	8 minutes		
2-①	Departs at 8:00	Departs at 8:10	Departs at 8:15	Arrives at 8:30	
No. of Passengers	7	7	1		15

15 November

- Timetable: Arrivals at the venue from 8:00 to 8:20

Shuttle No.	Grand Nikko Tokyo Daiba	Miraikan - The National Museum of Emerging Science and Innovation	Total no. of passengers
Time required to Miraikan - The National Museum of Emerging Science and Innovation	5 minutes		
1-①	Departs at 8:00	Arrives at 8:05	7
2-②	Departs at 8:00	Arrives at 8:05	4
1-②	Departs at 8:15	Arrives at 8:20	14
2-③	Departs at 8:15	Arrives at 8:20	16

Shuttle No.	Tokyo Bay Ariake Washington Hotel	Hotel Sunroute Ariake	Hotel Trusty Tokyo Bayside	Miraikan - The National Museum of Emerging Science and Innovation	Total no. of passengers
Time required to Miraikan - The National Museum of Emerging Science and Innovation	15 minutes	10 minutes	8 minutes		
2-①	Departs at 7:25	Departs at 7:35	Departs at 7:40	Arrives at 7:50	
No. of Passengers	0	3	1		4
3-①	Departs at 7:55	Departs at 8:05	Departs at 8:10	Arrives at 8:20	
No. of Passengers	10	14	10		34

• Timetable: Departures from the venue from 21:45 to 22:30 (after the gala dinner)/Successive departures

Shuttle No.	Miraikan - The National Museum of Emerging Science and Innovation	Grand Nikko Tokyo Daiba	Hotel Trusty Tokyo Bayside	Hotel Sunroute Ariake	Tokyo Bay Ariake Washington Hotel
Time required from Miraikan - The National Museum of Emerging Science and Innovation		5 minutes	8 minutes	10 minutes	15 minutes
4	Departs at 21:45	Arrives at 21:50			
No. of Passengers	25				
5	Departs at 21:50	Arrives at 21:55			
No. of Passengers	15				
4	Departs at 22:00	Arrives at 22:05			
No. of Passengers	5				
6	Departs at 21:45		Arrives at 21:53	Arrives at 21:57	Arrives at 22:05
No. of Passengers	15				
7	Departs at 21:50		Arrives at 21:58	Arrives at 22:02	Arrives at 22:10
No. of Passengers	1				
6	Departs at 22:20		Arrives at 22:28	Arrives at 22:32	Arrives at 22:40
No. of Passengers	No record				
7	Departs at 22:30		Arrives at 22:38	Arrives at 22:42	Arrives at 22:50
No. of Passengers	No record				

16 November

• Timetable: Arrivals at the venue from 8:15 to 8:45

Shuttle No.	Grand Nikko Tokyo Daiba	Miraikan - The National Museum of Emerging Science and	Total no. of passengers
Time required to Miraikan - The National Museum of Emerging Science and Innovation	5 minutes		
1-①	Departs at 8:10	Arrives at 8:15	4
1-②	Departs at 8:25	Arrives at 8:30	4
1-③	Departs at 8:40	Arrives at 8:45	3

Shuttle No.	Tokyo Bay Ariake Washington Hotel	Hotel Sunroute Ariake	Hotel Trusty Tokyo Bayside	Miraikan - The National Museum of Emerging Science and	Total no. of passengers
Time required to Miraikan - The National Museum of Emerging Science and Innovation	15 minutes	10 minutes	8 minutes		
2-①	Departs at 8:00	Departs at 8:10	Departs at 8:15	Arrives at 8:30	
No. of Passengers	7	15	13		35

• **Happo-en**

• Timetable: [From Miraikan - The National Museum of Emerging Science and Innovation to Happo-en] 18:30–19:20

Shuttle No.	Miraikan - The National Museum of Emerging Science and	Happo-en	No. of Passengers	
1	Departs at 18:30		39	
2	Departs at 18:40		42	
3	Departs at 18:45		39	
4	Departs at 18:50		34	
5	Departs at 18:55		38	
6	Departs at 19:00		35	
7	Departs at 19:05		32	
8	Departs at 19:10		15	
9	Departs at 19:15		7	
10	Departs at 19:15		3	
11	Departs at 19:20		0	Total no. of passengers
12	Departs at 19:20		0	284

• Timetable: [From Happo-en to hotels] 21:00–22:20

Shuttle No.	Happo-en	Hotel	No. of	
1	Departs at 21:00		45	
2	Departs at 21:05		43	
3	Departs at 21:10		40	
4	Departs at 21:20		42	
5	Departs at 21:30		36	
6	Departs at 21:40		38	
7	Departs at 21:50		29	
8	Departs at 22:00		15	
9	Departs at 22:10		7	
10	Departs at 22:20		0	
11	Departs at 22:20		0	Total no. of passengers
12	Departs at 22:20		0	295

17 November

• Timetable: Arrivals at the venue from 8:15 to 8:45

Shuttle No.	Grand Nikko Tokyo Daiba	Miraikan - The National Museum of Emerging Science and Innovation	Total no. of passengers
Time required to Miraikan - The National Museum of Emerging Science and Innovation	5 minutes		
1-①	Departs at 8:10	Arrives at 8:15	2
1-②	Departs at 8:25	Arrives at 8:30	1
1-③	Departs at 8:40	Arrives at 8:45	5

Shuttle No.	Tokyo Bay Ariake Washington Hotel	Hotel Sunroute Ariake	Hotel Trusty Tokyo Bayside	Miraikan - The National Museum of Emerging Science and	Total no. of passengers
Time required to Miraikan - The National Museum of Emerging Science and Innovation	15 minutes	10 minutes	8 minutes		
2-①	Departs at 8:00	Departs at 8:10	Departs at 8:15	Arrives at 8:30	
No. of Passengers	8	5	14		27

Hotels/accommodation

No.	Hotel Name	Plan	Room Rate (JPY)/ per person	Reference in USD (as of Nov.)	Number of rooms initially secured (As of April 2017)	Actual rate of use
1	Grand Nikko Tokyo Daiba	Superior Twin room (30 m ²)/single	23,960~	214~	150	28%
		Superior Twin room (30 m ²)	14,140~	126~		
		Deluxe Twin (40 m ²)/single	28,080~	251~	20	50%
		Deluxe Twin (40 m ²)	16,200~	145~		
2	Hotel Sun route Ariake	Single room (17.3 m ²)	11,120~	99~	100	29%
3	Tokyo Bay Ariake Washington	Single room (14.3 m ²)	12,574~	112~	30	3%
		Twin room (22.4 m ²)	16,300~	146~	0	1 room by request
4	Hotel Trusty Tokyo Bay Side	Single room (14.2 m ²)	16,500~	147~	20	24%
		Double room (22.4 m ²)/single	17,000~	152~	0	2 rooms by request

