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Join us at : STS *forum* 2017, 14th Annual Meeting

October 1, 2 and 3, 2017

Kyoto International Conference Center

October 2-4, 2016: STS *forum* 13th Annual Meeting at International Conference Center in Kyoto, Japan



Prime Minister Shinzo Abe giving a keynote speech at the Opening Plenary Session..

At 10:00am on Sunday, October 2, Mr. Koji Omi, Founder and Chairman of STS *forum*, opened the 13th Annual Meeting by stating that Science and Technology (hereafter "S&T") is having a greater impact than ever on the future of humanity which affects the economy, education, daily living and human interaction. Thus the relationship between S&T and society is entering into a new phase. This is why STS *forum* must play a greater role in encouraging the dialogue on S&T among world leaders.

More than 1,200 leaders from academia, industries and governments from 100 countries and regions gathered. At the Opening Session, we had the honor of welcoming Mr. Shinzo Abe, Prime Minister of Japan, Mr. Miro Cerar, Prime Minister of Slovenia, Mr. Arkady Dvorkovich, Deputy Prime Minister of the Russian Federation and

Mr. Sadayuki Sakakibara, Chairman of Japan Business Federation (KEIDANREN). Prime Minister Abe stated that the Japanese government had initiated the long-term strategy of "Society 5.0", which aimed to tackle issues such as aging, labor, big data and human wellness. Sensing, robotics, big data and cloud computing would play a central role in this strategy.

During this Annual Meeting, the total of 40 sessions including 10 plenary sessions and 30 concurrent sessions were held with active and far-reaching discussions over the pressing matters. Among the 10 plenary sessions, "Sustainable Development", "Lights and Shadows of ICT" and "Delivering Health Care to the World" attracted an audience of more than 300. "Sustainable Development" is defined as "development which meets the needs of the current generation without compromising the ability



Opening Plenary Session: From Right: Chairman Koji Omi of STS forum, Prime Minister Shinzo Abe of Japan, Prime Minister Miro Cerar of Slovenia, Deputy Prime Minister Arkady Dvorkovich of the Russian Federation, and Chairman Sadayuki Sakakibara of KEIDANREN.

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of future generations to meet their own needs". It was discussed that every person at this *forum* has made a commitment to sustainability and that the next step is leadership through action. "Lights and Shadows of ICT" discussed how humankind should deal with the situation which was new or renewed concepts and technologies, such as cloud computing, IoT and AI generate a constantly evolving environment with fascinating opportunities, at the same time new threats and vulnerabilities on the other hand. The theme of "Delivering Health Care to the World" was one of the Sustainable Development Goals (SDGs) set by the United Nations and the discussion was made on the current scientific, technical, and societal interventions, and outcomes in an area of the world where host nations and donor nations were intensely engaged in a battle with humanity's oldest scourges.



Chairman Koji Omi of STS forum at the Opening Plenary Session



UAE Minister Reem Ebrahim Al Hashimy of State for International Cooperation, UAE

Mr. Rush D. Holt, Jr. of American Association for the Advancement of Sciences (AAAS), USA



Prof. Shinya Yamanaka of Kyoto University, Japan (Nobel Laureate 2012)

Dinner Speaker: President Gwynne Shotwell of Space X, USA



Plenary Session "Sustainable Development" from right: Mr. Charles O. Holliday of Royal Dutch Shell plc, Minister Hiroshige Seko of Ministry of Economy, Trade and Industry of Japan, Mr. Anatoly B. Chubays, Chairman & CEO of Rusnano, Russia, Mr. Takeshi Uchiyamada of Toyota Motor Corporation, Japan, and Dr. Jorg Reinhardt of Novartis A.G.

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"Genome Engineering", "Bridging Science and Technology with Society and Politics" and "New Manufacturing Technologies" attracted especially a large audience among the concurrent sessions. "Genome Engineering" discussed about educating the public about the scientific facts related to GMOs (genetically modified organism) and their applications, how we could engage with the emotional issues that cause distress in the general public, and if there were new technologies for genetic modification that would need new approaches to regulations, etc. "Bridging Science and Technology with Society and Politics" emphasized that the open and informed communication among the different actors was vital to deliver the science-related economic growth. "New Manufacturing Technologies" discussed that the development of sustainable next generation manufacturing processes was critical both in natural resource, energy and environment aspects. Since data-driven IT based manufacturing required use of data centers that consume huge amount of electronic power, manufacturing sector must respond by developing highly energy efficient processes with minimizing waste energy and material use, and also maximizing recovery and recyclability.



Participants of Concurrent Sessions enjoyed the table discussions.

In addition to the plenary and concurrent sessions, there were 7 peer meetings which were S&T Ministers' Roundtable, University Presidents' Meeting, Research Institute Leaders Meeting, Academy of Science Presidents Meeting, Funding Agency Presidents' Meeting, Academy of Engineering Presidents Meeting, and CTO (Chief Technology Officer) Meeting. All these meetings were closed meetings where the attendants could discuss various pending projects freely among themselves. Besides these peer meetings, Regional Action on Climate Change Conference (RACC), the partnership for adaptation to the natural and social impact of regional climate change and hazards through the power of knowledge action networks, was held. The participants discussed the challenges climate change posed for governments, organizations and regions as they develop adaptation strategies. Finally, the Future Leaders Program was also organized with 98 participants from 17 countries.

Future Leaders Program: Dialogue between Future Leaders and Nobel Laureates

The "Future Leaders Program" is aiming to realize the important responsibility of nurturing future generations, and to invite promising young leaders from academia, industries, and governments under the age 40 years. The invited future leaders are to attend STS *forum* Annual Meeting and the special event entitled "Dialogue between Future Leaders and Nobel Laureates". In 2016, 98 future leaders, recommended by 38 foundations, research institutes and universities from 17 countries, participated and enjoyed the lively discussions with 9 Nobel Laureates.

Future leaders can attend all the sessions of the *forum* to enjoy interactive dialogues in the sessions. They also reap the benefits of building their networks with top world leaders (scientists including Nobel Laureates, leaders of academia, policy makers, business leaders, journalists and others) as well as their peers.

Some of the feedbacks from the participating future leaders read "The interaction with other future leaders with various backgrounds and different perspectives were eye-opening" and "I found it an impressive experience to getting to know how important it is to communicate with policy makers and economic leaders about the scientific results".



Future Leaders discussing with: from Left, Sir R. Roberts, Physiology of Medicine 1993, Prof. J. I. Friedman, Physics 1990, and Prof. Y. T. Lee, Chemistry 1986.



9 Nobel Laureates joined "Dialogue between Future Leaders and Nobel Laureates"

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The objective of the STS *forum* is to provide a platform where the world leaders in the field of policy making, academia and industry gather and discuss how to deal with S&T issues for the future of the mankind and thus the networking among the participants becomes crucial. During the 13th Annual Meeting, STS *forum* provided the plentiful time and opportunities for the networking time like coffee break and lunches in addition to the Official Dinner on the First Day and Special Buffet Dinner at Kyoto National Museum on the Second Day which was organized with the collaboration of Kyoto Prefecture and the Kyoto City.



Participants enjoy the interaction with the leaders from the diversified backgrounds.

Information

- **NHK World GLOBAL AGENDA Program: “Nobel Perspectives: A Scientist’s Cause”**
Taking the occasion of the 13th Annual Meeting, NHK World TV recorded one of their programs “GLOBAL AGENDA”, a full-scale debate program, with 4 of the Nobel Laureates who participated in the Annual Meeting: Dr. Jerome Friedman, Dr. Yuan Tseh Lee, Dr. Richard Robers and Dr. Shinya Yamanaka. Please refer to the following:
<http://www.nhk.or.jp/globalagenda/archive/16.html>
- **STS *forum* 2016 Summary is now available from the STS *forum* website.**
The Summary of the discussions of plenary and concurrent sessions of the 13th Annual meeting is available on the STS *forum* website:
http://www.stsforum.org/wp/wp-content/uploads/STS2016_web.pdf?lang=en

Chairman Koji Omi visited 12 cities in 8 countries from November 2016 to January 2017, in order to meet with and invite the leading figures to STS forum 14th Annual Meeting. The following is the outline of his visits.

USA and Germany --- November 6-12, 2016

On the occasion of the celebration of the 200th Anniversary of the New York Academy of Sciences, Chairman Omi attended its Gala Dinner held in New York on November 7. He also met Dr. Vartan Gregorian, President of Carnegie Corporation, Dr. Richard Edwards, Chancellor of Rutgers University and the leaders of financial pharmaceutical and other institutions. In Berlin, Chairman Omi attended the Falling Walls Conference on November 9 for which he is a board member. During his stay in Berlin and Munich, he met with Dr. Georg Schutte, State Secretary of the Federal Ministry of Education and Research, Dr. Mathis Kleiner, President of Leibniz Association, and many of the leading figures in various fields.

The Philippines & Taiwan --- November 14-22, 2016

Chairman Omi made a short visit to Manila and Taiwan. In Manila, Chairman Omi visited H.E. Dr. Fortunato T. de la Pena, Secretary of the Department of Science and Technology (DOST), Dr. Alfredo E. Pascual, President of the University of the Philippines Diliman. Also met with the leaders of the private sector such as Ayala Corporation and Alsons Consolidated Resources. In Taiwan, Chairman Omi visited President Emeritus Y.T. Lee of Academia Sinica, STS Council Member and 1986 Nobel Laureate, and other leading figures in academia and industries.



*Minister T. de la Pena of
Department of Science &
Technology, Philippines*

South Africa --- December 5-11, 2016



On December 9, Chairman Omi attended Science Forum South Africa organized by the Department of Science and Technology of South Africa. Also he visited Minister Pandor of Science and Technology among other prominent figures in the private sector.

*Left: Minister N.G. Pandor of Science and
Technology of South Africa.*

Israel and Turkey --- January 14-20, 2017

In Israel. Chairman Omi met with Minister Ofir Akunis of Science, Technology & Space, Prof. Issac Ben-Israel, Chairperson of the Israel space Agency and other leading figures in academia and industries. In Turkey, Chairman Omi visited Prof. Hasan Ali Celik, Deputy Minister of Science, Industry and Technology. Also he visited Prof. Ahmet Cevart Acar, President of Turkish Academy of Science, and Prof. Dr. A. Ergin, President of TÜBİTAK (The Scientific and Technological Research Council of Turkey) .



*Minister Ofir Akunis of
the Ministry of Science,
Technology & Space,
Israel.*



*From Left: Prof. I. T. Arkin, Vice President,
Prof. M. Ben-Sasson, President of Hebrew
University of Jerusalem, Chairman Omi,
Prof. H. Gutfreund, Executive Committee
Chairperson of Israel Science, Israel.*



*Prof. Hasan Ali Celik ,
Deputy Minister of
Science, Industry and
Technology, Turkey.*



*Prof. A. Arif Ergin,
President of TÜBİTAK,
Turkey.*

Council Meeting

■ Council Meeting, in Washington D.C. ---February 13, 2017



Total of 21 Council Members and their representatives gathered for the Council Meeting held in Washington DC on February 13 to discuss the program and candidates of the speakers for the 14th Annual Meeting to be held in October 2017.

Plans for 2017

■ 2nd STS *forum* INDIA-JAPAN Workshop

Date: February 28, 2017

Venue: ITC Maurya, New Delhi, India

Organized by: STS *forum*, Ministry of Science and Technology of India,

■ 4th STS *forum* ASEAN-JAPAN Workshop

Date: April 20, 2017

Venue: Discovery Kartika Plaza Hotel, Bali, Indonesia

Organized by: STS *forum*, Agency for the Assessment and Application of Technology (BPPT), Japan External Trade Organization (JETRO)

■ 2nd EU-STS *forum* High-Level Conference

Date: May 30, 2017

Venue: Brussels, Belgium (Venue to be confirmed)

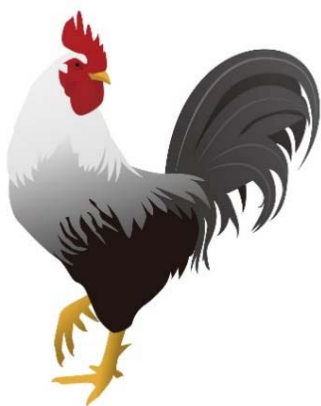
Organized by: STS *forum*, Science and Technology Options Assessment, EU Parliament (STOA) , Japan External Trade Organization (JETRO)

■ 14th STS *forum* Annual Meeting

Date: October 1-3, 2017

Venue: Kyoto International Conference Center, Kyoto, Japan

2017: The Year of the Rooster



In Japan, apart from the western calendar, the Chinese astrological calendar is widely used. There are twelve zodiac signs and each year has a symbolic animal. The order is: rat, bull, tiger, rabbit, dragon, snake, horse, sheep, monkey, rooster, dog and boar. The cycle is completed every twelve years. This year, 2017, is the year of the rooster. According to the Chinese lore, the Year of the Rooster is a year to harvest what have been cultivated.