STS forum Newsletter

No. 20

Autumn 2020

World Leaders Gathered Virtually to Discuss Global Issues at 17th STS *forum* Live Online October 3 - 6, 2020 Kyoto



The 17th Annual Meeting of the Science and Technology in Society *forum* (STS *forum*) took place from October 3 to 6, 2020 live online from the Kyoto International Conference Center, with virtual participation of nearly 1,500 global leaders in science and technology, policymaking, business, and media from 100 countries and regions and 20 international organizations. There were 15 sessions in all, with 113 speakers from 37 countries, regions and international organizations.

The opening session, Science and Technology for the Future of Humankind, began with a speech by Mr. Shinzo Abe, former Prime Minister, Government of Japan; Honorary Chairman, STS forum. The session was then chaired by Dr. Henry A. McKinnell, Chairman, Moody's Corporation. A special message was also received from Mr. Yoshihide Suga, Prime Minister, Government of Japan, and delivered in lieu of Prime Minister Suga by Asako Omi, Member, House of Representatives, Japan.



Chairman, Moody's Corporation; Chairman Emeritus, Pfizer Inc., U.S.A.



Prime Minister, Government of Japan (Special Message)



former Prime Minister, Government of Japan; Honorary Chairman, STS forum, Japan

"Special Message" from Prime Minister Suga was delivered by Ms. Asako Omi, Member, House of Representatives, Japan



Photo of Prime Minister Suga: from Official Website of the Prime Minister of Japan and His Cabinet (https://www.kantei.go.jp/)

Join us at: STS forum 2021 - 18th Annual Meeting October 2, 3, 4 and 5, 2021





Mr. Dmitry Chernyshenko
Deputy Prime Minister, Russian
Federation



His Excellency Mr. Marcelo Luis Ebrard Casaubon Secretary of Foreign Affairs, Government of Mexico



Ms. Mariya Gabriel Commissioner for Innovation, Research, Culture, Education and Youth, European Commission, EU



Prof. Kelvin K. Droegemeier Director of the Office of Science and Technology Policy, Executive Office of the President of the United States, U.S.A.



Mr. Takeshi Uchiyamada Chairman of the Board, Toyota Motor Corporation; Chairman, Council on Competitiveness -Nippon (COCN), Japan



Mr. Koji Omi Founder and Chairman, Science and Technology in Society forum (STS forum); former Minister of Finance, Japan

Among the speakers in this session was Mr. Dmitry Chernyshenko, Deputy Prime Minister, Russian Federation, who spoke of the unprecedented digital transformation taking place worldwide and Russia's initiatives in this regard. Russia is implementing a plan to digitalize public administration, social activities, and data infrastructure, with the aim of improving the quality of people's lives. Russia is also developing and implementing digital products, platforms, and solutions. In addition, Russia is advancing science and technology to anticipate and respond to other global challenges as well, such as the COVID-19 pandemic, and is ready to collaborate and share its experiences with the international community.

The session was also attended by Mr. Marcelo Luis Ebrard Casaubon, Secretary of Foreign Affairs, Government of Mexico, who shared the perspectives of the Community of Latin American and Caribbean States (CELAC) and discussed its collaboration with STS *forum*. Mexico is currently the President Pro-Tempore of CELAC, and CELAC has made innovation its priority for the year. CELAC and STS *forum* have been working together for 11 years and are organizing a dialogue among scientists, entrepreneurs, and policymakers to take place next year. The aim is to discuss ways to accelerate science and technology innovation, particularly in relation to COVID-19, and also how to build new and more equal societies once the pandemic is overcome.

In addition, Ms. Mariya Gabriel, Commissioner for Innovation, Research, Culture, Education and Youth, European Commission, highlighted the importance of research and innovation, and global cooperation in the face of the COVID-19 pandemic. This makes the annual meeting of STS *forum* as critical as ever. As history has shown, crises can make societies stronger, and it is hoped that the global community will emerge even stronger from the current crisis. For its part, the European Union is investing more in research and innovation, promoting stronger international cooperation, pursuing impact-oriented interdisciplinary research aimed at societal challenges, and fostering the next generation of scientists, including promoting gender equality.

Prof. Kelvin K. Droegemeier, Director of the Office of Science and Technology Policy, Executive Office of the President of the United States, also emphasized the importance of collaboration in science and technology, especially for overcoming the COVID-19 pandemic, and spoke about the United States and Japan's long history of cooperation in many critical fields, including infectious diseases, particle physics, neuroscience, space, cancer biology, and disaster resilience. Dr. Droegemeier also touched upon the essential role played by STS *forum* in bringing together researchers, policymakers, and business leaders from around the world and commended the holding of the annual meeting, despite the obstacles of the COVID-19 pandemic.

Mr. Takeshi Uchiyamada, Chairman of the Board, Toyota Motor Corporation, and Mr. Koji Omi, Founder and Chairman, STS *forum*, also attended the Opening Session and made their remarks. The overarching theme of this year's annual meeting was "The Role of Science and Technology in the Post COVID-19 Era," and there were four sessions with themes specifically tied to COVID-19. The first was Session 102 – Science and Technology in COVID-19 Pandemic, which was chaired by Dr. McKinnell and attended by special guests Dr. Anthony S. Fauci, Director, National Institute of Allergy and Infectious Diseases, U.S.A., and Prof. Kathleen Hall Jamieson, Elizabeth Ware Packard Professor of Communication & Director of the Annenberg Public Policy Center, University of Pennsylvania.



U.S.A., **Prof. Kathleen Hall Jamieson**, Elizabeth Ware Packard Professor of Communication & Director of the Annenberg Public Policy Center, Annenberg School for Communication, University of Pennsylvania, U.S.A.

The session's discussions centered on advances in understanding and treating COVID-19, including the ongoing development of vaccines, as well as ways to most effectively communicate the related scientific information to the public and gain its trust. Dr. Fauci underlined the importance of improving scientific literacy through education and scientific communication, in particular the need for society to understand that science is not a linear process, but a series of successes and failures that scientists build upon. Community outreach will also be necessary to build trust among communities that are skeptical of medical science and to ensure the rapid deployment of any future effective vaccines. Asked by Dr. McKinnell for medical advice for protecting oneself from COVID-19, Dr. Fauci first advocated good public health practices, namely wearing masks, social distancing, avoiding crowds, doing activities outdoors rather than indoors, and washing hands. He also recommended looking after personal health, including good sleep, good nutrition, avoiding stress, and avoiding excess.



Prof. George Fu Gao Director-General, Chinese Center for Disease Control and Prevention, China



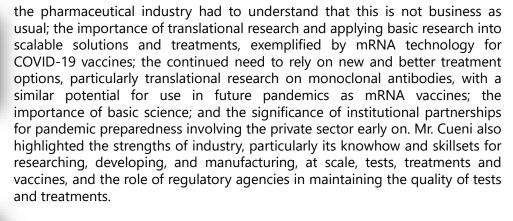
Mr. Thomas Cueni Director General, International Federation of Pharmaceutical Manufacturers & Associations (IFPMA), Switzerland

The second COVID-19-related session was Session 202 – Global Health: Lessons from New Coronavirus Crisis. Among the speakers was Prof. George Fu Gao, Director-General, Chinese Center for Disease Control and Prevention, who talked about the unprecedented nature of the COVID-19 pandemic and the lessons that could be learned from it. The world was not ready for this pandemic, which emerged because of human behavior. The COVID-19 crisis has highlighted the need for scientists to work together and share information, the need for humankind to respect nature, and the importance of preventing or correcting misinformation. Furthermore, the health security and wellbeing of all countries and their people are interconnected. Therefore, to overcome the current crisis, the world needs solidarity and to work in unison.

Another such session was Session 203 – Improving Preparedness for Pandemic Diseases: the Role of S&T. During the session, Mr. Thomas Cueni, Director General, International Federation of Pharmaceutical Manufacturers & Associations, shared five lessons from the COVID-19 pandemic: the fact that



Prof. Shinya Yamanaka Director and Professor, Center for iPS Cell Research and Application (CiRA) Kyoto University, Japan [Nobel Laureate 2012 (Physiology or Medicine)]





Mr. Michelle Bachelet United Nations High Commissioner for Human Rights, Office of the High Commissioner for Human Rights (OHCHR), Switzerland

The session was also attended by Prof. Shinya Yamanaka, Nobel Laureate in Physiology or Medicine (2012) and Director and Professor, Center for iPS Cell Research and Application, Kyoto University, who shared an analysis of different countries' policies and strategies to combat COVID-19. The main differences in each country's response have been the level of stringency and the testing capacity. Interestingly, Japan took a relatively mild policy and had relatively limited testing capacity, and yet it is suffering a much lower number of deaths. There may be some unknown factor that can explain this discrepancy. Countries and scientists should work together to study this and other subjects that may offer ideas for how to overcome the common threat of COVID-19.

The final COVID-19-related session was Session 303 – Shaping the Post COVID-19 Society. Ms. Michelle Bachelet, United Nations High Commissioner for Human Rights, was among the speakers. She discussed society's dependence on digital technology, as underscored by the COVID-19 crisis, and how to turn the crisis into an opportunity. By learning the lessons from this pandemic, the world can rebuild society better than before. Although COVID-19 can infect anyone, it predominantly affects the most vulnerable. When building back society, efforts should be made to address various inequalities. For example, the pandemic has brought into sharp relief the digital divide. Societies should guarantee not only human rights and freedoms, but also access to digital technologies. Universal access to resilient healthcare without discrimination should also be ensured.



Left: Session 203 "Improving Preparedness for Pandemic Diseases: the Role of S&T" (Chair] Prof. Harriet Wallberg, Professor and former President, Karolinska Institutet, Sweden



President, Mario Molina Center for Strategic Studies on Energy and the Environment, Mexico; Professor, Department of Chemistry and Biochemistry, University of California, San Diego (UCSD), U.S.A. [Nobel Laureate 1995 (Chemistry)]

Besides COVID-19, the other sessions covered wide-ranging themes such as sustainability, science policy, inclusive participation, and Al. On the first day, there was Session 101 – Sustainable Society, which was attended by Dr. Mario J. Molina, Nobel Laureate in Chemistry (1995) and President, Mario Molina Center for Strategic Studies on Energy and the Environment in Mexico. The members of STS *forum* were deeply saddened to learn that Dr. Molina later passed away on October 7, local time, and wish to hereby express our sincere condolences on his passing.

During the session, the late Dr. Molina spoke passionately about the fundamental importance of ensuring the sustainability of the planet, particularly tackling climate change. Echoing his sentiments was Mr. Terry Brady, President and CEO, Underwriters Laboratories Inc., who called on researchers, policymakers, and industry leaders to work together to accelerate scientific and technological development to build a more resilient society, and emphasized the importance of safety to achieving sustainability.



Mr. Terry Brady President and CEO, Underwriters Laboratories Inc., U.S.A.



Ms. Karen Andrews
Minister for Industry,
Science and Technology,
Ministry for Industry,
Science and Technology,
Australia



Dr. Ilham Kadri Chief Executive Officer, Solvay, Belgium



Dr. Fabiola GianottiDirector General,
European Organization for
Nuclear Research (CERN),
Switzerland



Prof., Dr. Erwin Neher Research Director, Emeritus, Department of Membrane Biophysics, Max Planck Society, Germany [Nobel Laureate 1991 (Physiology or Medicine)]

The second day included Session 200 – Science and Technology Education for Society and Session 201 – Science and Technology in Business. In the former, Ms. Karen Andrews, Minister for Industry, Science and Technology, Australia, emphasized the importance of education in science, technology, engineering, and mathematics (STEM) fields, and also the value of the STEM-educated workforce, believing science and technology to be key to the future prosperity and wellbeing of society. In the latter, Dr. Ilham Kadri, Chief Executive Officer, Solvay, expressed the belief that no company will have a future if it does not raise the bar on sustainability, calling sustainability businesses' license to operate, and that there is no sustainability without chemistry.

The first session of day three was Session 300 – Cooperation and Collaboration in Science and Technology. During the session, Prof. Fabiola Gianotti, Director General, European Organization for Nuclear Research, spoke of the inherent multilateral nature of science, its role as a tool for innovation, and its unifying nature, while Prof. Dr. Erwin Neher, Nobel Laureate in Physiology or Medicine (1991) and Research Director, Emeritus, Department of Membrane Biophysics, Max Planck Society, discussed the conflict between cooperation and competition in science and technology, and argued for the benefits of cooperation, particularly in the present situation surrounding the COVID-19 crisis.

In the following session, Session 301 - Global Governance of Information, Dr. Sudip S. Parikh, Chief Executive Officer, American Association for the Advancement of Science (AAAS), reported on AAAS' current efforts to convey scientific findings and news to the public quickly and accurately, and explained how the pandemic has revealed that it is not enough for scientists alone to be communicating about their findings. In addition, Dr. Leila Zia, Head of Research, Wikimedia Foundation, spoke about the global governance of knowledge and the stakeholders involved in constructing and accessing knowledge, shared the editing, transparency, credibility, consensus-building processes employed by Wikipedia. Meanwhile, in Session 302 - Basic Science, Innovation and Policy, Dr. Sethuraman Panchanathan, Director, National Science Foundation, expressed the belief that decades of investment in basic research had led to discoveries that have supported the current fight against COVID-19, such as advances in mathematics, computation, data science, and mobile phone technology enabling scientists to track and model the disease, and called for expanded investment and continued international collaboration.



Dr. Sudip S. Parikh Chief Executive Officer, American Association for the Advancement of Science (AAAS), U.S.A.





Dr. Sethuraman PanchanathanDirector, National Science
Foundation (NSF), U.S.A.



Dr. Chris FallDirector, Office of Science,
U.S. Department of Energy
(DOE), U.S.A.



Dr. Bernard BigotDirector-General, ITER
Organization, France



Prof. Dr. Ada E. Yonath Director of The Helen and Milton A. Kimmelman Center for Biomolecular Structure and Assembly, Weizmann Institute of Science, Israel [Nobel Laureate 2009 (Chemistry)]



Prof. Yoshua Bengio Scientific Director, Mila -Quebec Al Institute; Full Professor, Computer Science and Operations Research, University of Montreal, Canada

The fourth day was opened with Session 400 – Energy and Environment, during which Dr. Chris Fall, Director, Office of Science, U.S. Department of Energy, pointed out that while the pandemic has brought sickness and death, it has also shown glimpses of a possible brighter future, with interruptions to economic activities bringing cleaner air to many regions, and new ways of working and living that may be more efficient. Another speaker in the session was Dr. Bernard Bigot, Director-General, ITER Organization, who talked about the disruption caused by the COVID-19 pandemic to ITER, the international fusion research project, and how the stakeholders have been working to overcome it with collaboration, trust, and planning.

This was followed by Session 401 – Promoting Inclusive Participation in Science and Technology. In the session, Prof. Dr. Ada E. Yonath, Nobel Laureate in Chemistry (2009) and Director of The Helen and Milton A. Kimmelman Center for Biomolecular Structure and Assembly, Weizmann Institute of Science, spoke about inclusive participation at the Weizmann

Institute of Science, and commented on the importance of promoting excellence when implementing gender diversity measures, as well as the need to educate society. Next, in Session 402 – Al and Society, Prof. Dr. Yoshua Bengio, Scientific Director, Mila - Quebec Al Institute, discussed the potential of artificial intelligence to be used to enhance social good in fields such as healthcare, agriculture, education, and environment, while also cautioning that the risk of its misuse has also grown as it has spread to broader society.



Dr. Marcia McNuttPresident, National
Academy of Sciences,

The closing session was chaired by Dr. Marcia McNutt, President, National Academy of Sciences, U.S.A. The speakers were Prof. Andrew Zachary Fire, Professor, Departments of Pathology and Genetics, Stanford University School of Medicine; Dr. Ir. Hammam Riza, President, Agency for the Assessment and Application of Technology; Prof. Hiroshi Komiyama, Chairman, Mitsubishi Research Institute, Inc.; and Dr. Ismail Serageldin, Founding Director Emeritus, The Library of Alexandria. Dr. McNutt noted that, with this year's annual meeting of STS *forum* being held amid the COVID-19 pandemic, particular focus has been devoted to sustainability. The crisis has emphasized the need

for a sustainable healthcare system, sustainable economies, sustainable educational institutions, and a sustainable society. The pandemic has also revealed disproportionate impacts on different segments of society, thereby increasing inequality that is incompatible with a healthy, sustainable society. In this context, STS *forum* is addressing the correct questions and its discussions have informed thinking on building a more enduring, resilient society.

During the Annual Meeting, three peer meetings were also held online: the S&T Ministers' Roundtable, the 9th Global Summit of Research Institute Leaders and the Academy of Science Presidents' Meeting, attended by 25 ministers, 26 research institute presidents and 19 academy of science presidents. Regional Action on Climate Change (RACC12) also took place virtually on October 2, 2020 and was attended by 190 participants. The Young Leaders Program and other side meetings were not held in 2020 due to the pandemic.



Right: Regional Action on Climate Change (RACC12)

The 18th Annual Meeting of STS *forum* is scheduled to be held online from Kyoto from Saturday, October 2, to Tuesday, October 5, 2021.

Russia Workshop (Online)

November 17, 2020

STS forum Russia-Japan Workshop Online 2020

The STS forum, the Skolkovo Foundation, the Skolkovo Institute of Science and Technology (Skoltech) and the Japan External Trade Organization (JETRO) jointly organized the very first STS forum Russia-Japan workshop on November 17, 2020 online. This event was originally planned to take place in Moscow as an in-person workshop. The panelists in the area of policy making, academia, and industry from Japan and Russia gathered virtually due to the pandemic to discuss issues on Russia-Japan cooperation in science, technology and innovation in post COVID-19 era.





Mr. Kanji Fujiki declaring the opening of the workshop on behalf of Chairman Koji Omi







Kuleshov

The first session, "Deepening Russia Japan Cooperation in Science, Technology and Innovation" was co-chaired by Dr. Natalia Ivanova, Academician, Head of Science and Innovation Research, IMEMO and Prof. Kiyoshi Chancellor. Yamada. Tokai University.

The next session, "Focusing on Societal Science, Technology Needs for Innovation in Russia and Japan," was cochaired by Mr. Alexey Repik, Chairman, Russian Japanese Business Council, All Organization "Business Russia Public Russia" and Prof. Yoshihide Hayashizaki, Program Director, Preventive Medicine and Diagnosis Innovation Program, RIKEN.

The workshop was declared open by Mr. Kanji Fujiki, Executive Director of STS forum, who made the opening address on behalf of Chairman Koji Omi. Mr. Andrey Fursenko, Aide to the President of the Russian Federation and Mr. Toyohisa Kozuki, Ambassador Extraordinary and Plenipotentiary of Japan to the Russian Federation, also made their opening remarks and welcomed the panelists and participants connected online. The opening addresses were followed by the keynote speeches by Arkady Dvorkovich, Chairman, Foundation, who signed a mutual agreement with STS forum Chairman Koji Omi for the arrangement of this workshop in October 2019 and Prof. Alexander P. Kuleshov, President, Skoltech.



Session 1 "Deepening Russia Japan Cooperation in Science, Technology and Innovation" co-chaired by Dr. Natalia Ivanova of Russian Academy of Sciences and Prof. Kiyoshi Yamada of Tokai University.



Session 2 "Focusing on Societal Needs for Science, Technology and Innovation in Russia and Japan" co-chaired by Mr. Alexey Repik of All Russia Public Organization "Business Russia," and Prof. Yoshihide Hayashizaki of RIKEN.





At the Closing Session, Mr. Alexey Ponomarev, Senior Vice-President for Industrial Cooperation, Skoltech and Mr. Toshio Adachi, Advisor to the Chairman, STS forum made their closing remarks, and expressed their gratitude for the co-organizers and supporting organizations as well as the tremendous effort made by both the Tokyo and Moscow teams in making this event possible. They stated that they hope both sides will meet in Moscow for a face-to-face event in 2021 if the situation allows.

Board Meeting and General Meeting

November 12, 2020

The Board Meeting and General Meeting took place online on November 12, 2020. In the meetings, the 17th Annual Meeting in 2020 was reviewed and the budget plan for 2021 was presented. With the retirement of two directors, a new director was elected in the General Meeting.

A New Director joined our Board



Mr. Satoshi Tsunakawa, Chairman of Toshiba Corporation and a member of our Council, newly joined our Board on November 13, 2020.

Members and Sponsors

Special Thanks to the Sponsors of 17th Annual Meeting

The 17th Annual Meeting was successfully held by the support of the lead sponsors and sponsors as well as the members of the STS *forum*. The STS *forum* would like to thank the sponsors and members for their continued support during this difficult time.

New members joined the STS forum

We are pleased to introduce our new members joined since April 2020:

- The Henry Luce Foundation (U.S.A.) AA-STS member
- Intuitive Foundation (U.S.A.) AA-STS member

Sponsors of 17th Annual Meeting

Lead Sponsors (2)

- Toyota Motor Corporation (Japan)
- Underwriters Laboratories Inc. (U.S.A.)

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- Nippon Telegraph and Telephone Corp. (NTT) (Japan)
- Saudi Aramco (Saudi Arabia)
- Tokyo Electron, Ltd. (Japan)
- Toshiba Corporation (Japan)

For details regarding membership and sponsorship, please contact **member@stsforum.org**. STS forum is a non-profit organization, and your support is greatly appreciated.

2021 Plans

Dates are subject to change

January 21 (Thu)	Council Meeting (online) mainly for the council members in the Americas
January 22 (Fri)	Council Meeting (online) mainly for the council members in the areas from Europe to Asia, including the Middle East and Oceania
March 25 (Thu)	Board Meeting (online)
May 20 (Thu)	Council Meeting (online) mainly for the council members in the Americas
May 21 (Fri)	Council Meeting (online) mainly for the council members in the
	areas from Europe to Asia, including the Middle East and Oceania
October 2, 3, 4 & 5	STS forum 2020 - 18 th Annual Meeting (online)
October 2, 3, 4 & 5 December 7 (Tue)	
	STS <i>forum</i> 2020 - 18 th Annual Meeting (online)
December 7 (Tue)	STS forum 2020 - 18 th Annual Meeting (online) Latin America and the Caribbean High-Level Conference
December 7 (Tue) Date to be decided	STS forum 2020 - 18 th Annual Meeting (online) Latin America and the Caribbean High-Level Conference AA-STS Workshop