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“The Forum will hopefully demonstrate the vital role science can play in creating wealth and solving global issues such as climate change, disease and hunger.”



David Sainsbury
Minister for Science and Innovation, UK

“These complex issues cannot be dealt by the science community alone.”



Bruce Alberts
President, National Academy of Sciences, US

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“The development of science and technology is outpacing our human wisdom.”



Hiroyuki Yoshikawa
President, National Institute of Advanced Industrial Science and Technology, JP

Science and Technology in Society forum

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“I hope that this initiative will be recognized as an epoch-making event in the long history of humankind.”



Koji Omi
Chairman, Steering Committee, STS forum, former Minister of State for Science and Technology Policy, JP

forum

“Science and technology are now the flywheels of business and commerce. This Forum will help our enterprises translate scientific achievement into global opportunity.”



Henry A. McKinnell, Jr.
Chairman of the Board and CEO, Pfizer Inc., US

INAUGURAL MEETING
November 14-16, 2004
Kyoto, Japan

Science and Technology in Society *forum*: Lights and Shadows

Fundamental Concept

The explosive progress of science and technology up to the 20th century brought prosperity and enriched the quality of life for much of mankind. However, its benefits are not reaching a major part of the world's people. Health, meeting energy needs, and many other aspects of human welfare are dependent on continued progress in science and technology. The barriers to seizing the opportunities for using science and technology to solve the problems of humankind need to be discussed.

At the same time, the advance of science and technology raises important ethical, safety and environmental issues: possible negative applications are threatening mankind's own future. Since progress in science and technology is expected to accelerate and be required to provide for sustainable human development in the 21st century, wisdom must be exercised to keep it under proper control.

In that sense, among the most pressing problems we face today are: harmonizing economic development with global warming; preventing the use of advanced technology by terrorists; controlling infectious diseases; and assessing potential health benefits and ethical factors related to human cloning. International efforts to address these problems are needed more than ever. This is really what symbolizes the "lights and shadows of science and technology." Opportunities need to be taken, but the risks must be controlled.

Because the problems we face today are becoming increasingly complex against the backdrop of globalization and international competition, they are beyond the control of any single country.

These issues are also beyond the control of the scientific community alone, because many of the problems will find solutions through the revision of social systems, international collaboration, global networks, and the building of common rules.

The time has come for not only academicians and researchers but also legislators, business

people and journalists from all over the world to meet and discuss science and technology issues in the 21st century. They should also undertake cross-border activities towards the establishment of shared values in this field.

This is the reason why we plan to hold a forum called the "Science and Technology in Society *forum* (STS *forum*)" with an inaugural meeting to be held from November 14 through 16, 2004, in Kyoto, Japan. This forum would bring together policy makers, business leaders, scientists and opinion leaders, who will be requested to participate not as representatives of their country or organization but as individuals to express their own views. This forum is not necessarily a platform for specialists to convey their knowledge and come up with specific recommendations, but rather an opportunity for real dialogue. All participants can jointly address the ways in which these issues relating to science and technology in society are common to all human beings. The initial founders would like to see each participant have an acute sense of personal engagement in trying to solve these common problems.

This forum aims to provide a new mechanism for open discussions on an informal basis, and to build a community that would, in time, resolve these new types of problems stemming from the application of science and technology. This community will also formulate the opportunities arising from science and technology, and will address how to remove the barriers to using science and technology to solve the problems facing humankind. We believe that this process can provide new methodology and build new relationships that will allow us to better understand and identify important issues involving science and its applications to society, as well as possible pathways to their solutions in the future.

After the inaugural meeting, we plan to hold a meeting once a year; the second meeting will also be held in Kyoto in 2005.

STS *forum* FOUNDING MEMBERS

In principle, founding members will be attending the Inaugural Meeting as speakers.

(Alphabetical order, as of June 2004)

ALBERTS, Bruce

President, National Academy of Sciences (NAS), US

BINGAMAN, Jeff

Ranking Member, Committee on Energy and Natural Resources, Senate, US

BRENNER, Sydney

Distinguished Research Professor, The Salk Institute, UK

BUSQUIN, Philippe

Commissioner for Research, EU

CAMPBELL, Philip

Editor-in-Chief, Nature, UK

D'AUBERT, François

Minister Delegate for Research and New Technologies, FR

DESMARESCAUX, Philippe

Chairman, Scientific Foundation of Lyon, Biovision, FR

FRIEDMAN, Jerome I.

Professor, Massachusetts Institute of Technology (MIT), US

FURSENKO, Andrey A.

Minister of Education and Science, RU

GROS, François

Honorary Permanent Secretary, Académie des Sciences, FR

HAN, Seung-soo

President, The 56th Session of the United Nations General Assembly, KR

HOSODA, Hiroyuki

Chief Cabinet Secretary (Former Minister of State for Science and Technology Policy), JP

KING, David

Chief Scientific Advisor to the Government, UK

KUROKAWA, Kiyoshi

President, Science Council of Japan, JP

LU, Yongxiang

President, Chinese Academy of Sciences, CN

LUBCHENCO, Jane

President, ICSU

MARBURGER III, John

Science Advisor to the President, Director, Office of Science and Technology Policy (OSTP), US

MASHELKAR, Raghunath A.

Director General, Council of Scientific & Industrial Research, IN

MAY, Robert

President, Royal Society, UK

McKINNELL, Jr., Henry A.

Chairman of the Board and CEO, Pfizer Inc., US

MORATTI, Brichetto Arnaboldi Letizia

Minister of Education, Universities and Scientific Research, IT

NISHIMURO, Taizo

Chairman of the Board, Toshiba Corp., JP

OKIMURA, Kazuki

President, Japan Science and Technology Agency (JST), JP

OKUDA, Hiroshi

Chairman, Toyota Motor Corp. and Chairman, Nippon Keidanren (Japan Business Federation), JP

OMI, Koji

Member of the House of Representatives (Former Minister of State for Science and Technology Policy), JP

ÖQUIST, Gunnar

Secretary-General, Royal Swedish Academy of Sciences, SE

ROSSWALL, Thomas

Executive Director, ICSU

SAINSBURY, David

Minister for Science and Innovation, UK

SERAGELDIN, Ismail

Director, Library of Alexandria, EG

SHOYAMA, Etsuhiko

President, Chief Executive Officer and Director, Hitachi, Ltd., JP

TONEGAWA, Susumu

Picower Professor of Biology and Neuroscience, Massachusetts Institute of Technology (MIT), JP

WALLBERG-HENRIKSSON, Harriet

President, Karolinska Institutet, SE

WATANABE, Osamu

Chairman and CEO, Japan External Trade Organization (JETRO), JP

WESTON, John

Non-executive Chairman, Spirent plc., UK

XU, Guanhua

Minister of Science and Technology, CN

YAKUSHIJI, Taizo

Member, Council for Science and Technology Policy, JP

YEO, Philip

Chairman, A*STAR, SG

YOSHIKAWA, Hiroyuki

President, National Institute of Advanced Industrial Science and Technology (AIST), JP

YOSHINO, Hiroyuki

Director and Advisor, Honda Motor Corp. Ltd., JP

ZEWAIL, Ahmed H.

Professor, California Institute of Technology, EG-US

Inaugural Meeting of the STS *forum*

Science and Technology in Society: Lights and Shadows

Venue: Kyoto International Conference Hall

Nov. 14
2004
(Sun.)

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| 12:00 - | Registration |
| 16:00 - 17:30 | Opening Ceremony and Inaugural Session
Junichiro KOIZUMI, Prime Minister, Japan |
| 17:30 - 20:30 | Cocktails followed by Seated Dinner |

Nov. 15
2004
(Mon.)

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| 08:30 - 09:45 | Plenary Session |
| 10:00 - 12:00 | First Series of Concurrent Sessions:
A. Energy Issues and Global Environment
B. Ethical Aspects of Science and Technology
C. ICT's Impact on Human Society
D. Capacity Building: Education and Knowledge
E. Global Issues of Human Security |
| 12:15 - 13:30 | Working Lunch (with Guest Speaker) |
| 14:00 - 16:00 | Second Series of Concurrent Sessions:
A. Energy Issues and Global Environment
B. Ethical Aspects of Science and Technology
C. ICT's Impact on Human Society
D. Capacity Building: Education and Knowledge
E. Global Issues of Human Security |
| 16:00 - 16:30 | Coffee Break |
| 16:30 - 18:30 | Plenary Session |
| 19:00 - 21:00 | Special Buffet Dinner: "Experience Kyoto"
(special venue with entertainment) |

Nov. 16
2004
(Tue.)

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|---------------|-------------------------|
| 08:30 - 10:30 | Plenary Session |
| 11:00 - 12:30 | Closing Plenary Session |
| 12:30 - 14:00 | Farewell Buffet Lunch |
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List of invited speakers at the STS *forum* (November 2004)

(Alphabetical order; *Confirmed, as of June 2004)

***ABRAHAM, Spencer**

Secretary of Energy, US

AL SHAMSI, Rashid Hamad

General Manager, Emirates General Petroleum Corporation (EMARAT), UAE

***ALLENDE, Jorge**

Member of Academia Chilena de Ciencias, Instituto de Ciencias Biomedicas (ICBM), CL

***ANDERSON, Chris**

Editor-in-Chief, Wired Magazine, US

***ANDERSON, Dennis**

Director, Imperial Centre for Energy Policy and Technology (ICEPT), Department of Environmental Science & Technology, UK

BALSILLIE, James L.

Chairman and Co-CEO, Research In Motion (RIM), CA

***BRANSCOMB, Lewis M.**

Professor Emeritus, Public Policy and Corporate Management, John F. Kennedy School of Government, Harvard University, US

BRUNDTLAND, Gro Harlem

Former Prime Minister, Norway and Director-General Emeritus, WHO, NO

***CALDAS, Ruy Araújo**

Director of the Pos-Graduation Program, Catholic University of Brasília, BR

CARDOSA, Mary Jane

Director of the IHCM, Universiti Malaysia Sarawak, MY

ERGMA, Ene

President, Riigikogu (Parliament of Estonia), EE

FALASCHI, Arturo

Director General, International Centre for Genetic Engineering and Biotechnology (ICGEB), IT

***FIGUERES, Jose Maria**

Chief Executive Officer, World Economic Forum, CR

FRENK, Julio

Secretary of Health, MX

FRIST, Bill

Majority Leader, United States Senate, US

***GAGE, John**

Chief Researcher and Vice President of the Science Office, Sun Microsystems, Inc., US

GAGO, Jose-Mariano

President, LIP-Laboratorio de Instrumentacao e Fisica Experimental de Particulas, PT

GATES III, William H.

Chairman and Chief Software Architect, Microsoft Corp., US

GOLDEMBERG, Jose J.

Professor, Institute of Electronics and Energy, University of Sao Paulo, BR

GOPALAKRISHNAN, Adinarayantampi

Former Senior Research Associate, Belfer Center for Science & International Affairs, IN

HALLIDAY, Ian

Chief Executive, Particle Physics and Astronomy Research Council, UK

HAMBURG, Margaret A.

Vice President for Biological Programs, NT Initiative, US

***HASSAN, M.H.A.**

Executive Director, Third World Academy of Sciences, SD

HENNICKE, Peter

President, Wuppertal Institute for Climate, Environment and Energy, DE

HONG, Liang Lu

Chairman, CEO & President, UTStarcom Inc., TW

KAHLE, Brewster

Digital Librarian, Director and Co-founder, Internet Archive, US

KALIL, Thomas

Special Assistant to the Chancellor for Science and Technology, University of California, Berkeley, US

KAYA, Yoichi

Director General, Research Institute of Innovative Technology for the Earth (RITE), JP

KHOSLA, Vinod

General Partner, Kleiner Perkins Caufield & Byers, IN

***KLAUSNER, Richard D.**

Executive Director, Global Health, Bill & Melinda Gates Foundation, US

***KOIZUMI, Junichiro**

Prime Minister, JP

***MADKOUR, Magdy**

President, Ministry of Agriculture and Land Reclamation, Agricultural Research Center (ARC), EG

MEHTA, Goverdhan

President-Elect, ICSU

MUBARAK, Mohamed Hosni

President, EG

MURTHY, N.R.Narayana

Chairman of the Board and Chief Mentor, Infosys Technologies, Ltd., IN

***NEWTON, Richard**

Dean of the College of Engineering and the Roy W. Carlson Professor of Engineering, University of California, Berkeley, US

NIJKAMP, Peter

Research Fellow, Labour, Region and Environment, Department of Spatial Economics, Tinbergen Institute, NL

ÖSTROS, Thomas

Minister for Education and Science, SE

PAUL, Vivek

Vice Chairman and President, Wipro Technologies, IN

***PLATE, Nikolay**

Vice President, Russian Academy of Sciences, RU

POWELL, Colin L.

Secretary of State, US

PRAHALAD, C.K.

The Harvey C. Fruehauf Professor of Business Administration, University of Michigan Business School, IN

RAMPHELE, Mamphela

Managing Director, World Bank Group, ZA

REDDY, Raj

The Herbert A. Simon University Professor of Computer Science and Robotics in the School of Science, Carnegie Mellon University, IN

***RICHTER, Burton**

Director Emeritus, Standard Linear Accelerator Center, US

RUIZ, Hector

Chairman of the Board, President & CEO, Advanced Micro Devices (AMD), MX

***SADOVNICHII, Viktor Antonovich**

Rector, M.V.Lomonosov Moscow State University, RU

SAKAMURA, Ken

Executive Director, TRON Project, Interfaculty Initiative in Information Studies, Graduate School of The University of Tokyo, JP

SCHWARTZ, Peter

Co-founder and Chairman, Global Business Network, DE

SHARMA, Manju

Advisor to the Minister for Science and Technology, Government of India, IN

SINGER, Peter

Director, University of Toronto Joint Centre for Bioethics, CA

TORVALDS, Linus

Linux creator, FI

VEST, Charles

President, Massachusetts Institute of Technology (MIT), US

WAMBUGU, Florence

Chief Executive Officer, A Harvest Biotech Foundation Int'l (AHBFI), KE

WEN, Jiabao

Prime Minister, CN



“ I fully support your initiative. Kyoto is the ideal venue for inaugurating this forum and I wish you every success in this epoch-making meeting. ”

Junichiro Koizumi, Prime Minister, Japan

STS forum: Inaugural Meeting (Nov.14-16, 2004, Kyoto)

Participation

- ❑ Participation upon invitation only. Invitations are issued upon the recommendation of one or more founding member(s) of the STS *forum*.
- ❑ Participants are requested to make their own travel arrangements to the venue. Hotel reservations may be arranged through the Secretariat, upon request. (Limited availability, particularly in the adjacent Prince Hotel Takaragaike.)
- ❑ Participation fee: US\$1,000 (business); US\$500 (other). This covers all sessions (including simultaneous interpretation into English for plenary sessions, documents and all meals mentioned in the program.)
- ❑ Accompanying spouse programs and other post-conference tours (science & technology focused) in the region will be organized.
- ❑ Showcase for latest state-of-the-art technologies from around the world: this Inaugural Meeting will be the stage for many organizations to present their latest products and services to delegates, who will be able to experience unique prototypes of all domains.

For more information, please contact

STS forum Secretariat

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