

14th
HOPE MEETING
with Nobel Laureates



27 February – 3 March, 2023

Registration: Sunday, **26 February, 2023**

Tsukuba-city, JAPAN



HOPE Meetings are held for excellent graduate students and young researchers specially selected from countries/areas around the Asia-Pacific and Africa region. These meetings give an opportunity for the participants to engage in interdisciplinary discussions with Nobel laureates and other distinguished scientists pioneering the frontiers of knowledge. They also give the participants, who lodge together over the course of the event, a chance to make friends and form collegial networks with peers from the regions.

JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE



JSPS

Office of the HOPE Meetings, JSPS

hope-meetings@jspm.go.jp

Tel: +81-3-3263-2414

<https://www.jspm.go.jp/english/e-hope/index.html>



Program of the 14th HOPE Meeting

The program of the HOPE Meeting will feature the following:

- 1 Lectures by Nobel laureates, distinguished researchers and cultural authorities
- 2 Small group discussions with the lecturers (seminar style)
- 3 Poster session including 1 minute oral presentation by each participant
- 4 Oral presentations by multinational participant teams
- 5 Cultural experience program
- 6 Excursion (research facilities and historical heritages)

Please note:

1. The program may be subject to change due to concern about the state of the COVID-19 pandemic.
2. Lecturers may participate in the meeting through the online-conferencing platform.



Date	MORNING				AFTERNOON & EVENING		
MONDAY, 27 Feb.	Opening Ceremony	Lecture 1	Group Discussions	Lecture 2	Poster Session	Lecture 3	Group Discussions
TUESDAY, 28 Feb.	Lecture 4	Group Discussions	Lecture 5	Poster Session	Lecture 6	Group Discussions	
WEDNESDAY, 1 Mar.	Lecture 7	Group Discussions	Poster Session	Research Institution Visit			
THURSDAY, 2 Mar.	Lecture 8	Group Discussions	Concert	Cultural Program	Preparation for Team Presentations		
FRIDAY, 3 Mar.	Team Presentations			Closing Ceremony	Cultural Site Visit		

Tentative (as of July 2022)

Organizing Committee of the 14th HOPE Meeting

■ Chair



KAJITA Takaaki

Nobel Laureate in Physics 2015

Distinguished University Professor, The University of Tokyo

Professor, Institute for Cosmic Ray Research (ICRR), The University of Tokyo

■ Organizing Committee Members

See: <https://www.jsps.go.jp/english/e-hope/sosiki14.html>

Participants

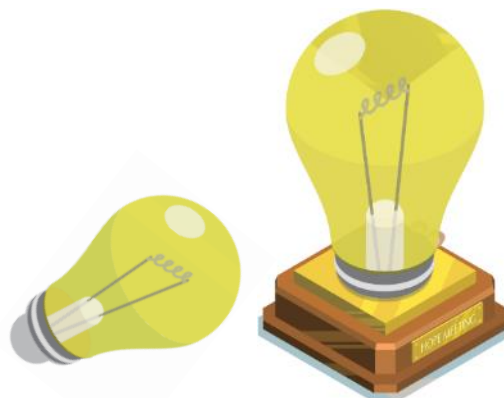
About 100 doctoral students and young researchers from the following countries/areas:

Australia, Bangladesh, China, Egypt, India, Indonesia, Israel, Japan, Kenya, Korea, Malaysia, Myanmar, Nepal, New Zealand, Philippines, Senegal, Singapore, South Africa, Taiwan, Thailand, Turkey, Vietnam

Selection Criteria

Participants are selected based on the following criteria:

- Be a PhD student or young researcher (who received a PhD after 2 April 2017) with a record of excellent academic performance
- Have not been selected to participate in a past HOPE Meeting
- Have an excellent record of research and a high level of interest in the societal influence of scientific knowledge and its application
- Have a strong interest in a wide scope of science and research
- Be expected to go on to advance future research in the Meeting's subject field(s)
- By participating in the meeting, be expected to initiate joint research and/or build collegial networks in the future
- Have a strong desire to participate actively in the Meeting's exchanges and discussions
- Possess ample English proficiency to do so
- Be able to participate in the entire Meeting program from 27 February to 3 March.



COVID Requirements for Participants

To prevent coronavirus infections, participants of the HOPE Meeting are required to satisfy the following conditions:

- Must have received COVID-19 vaccination at least three doses^{a)} and be able to provide a **certificate of vaccination**^{b)} by January 2023.
- Must be able to take a prescribed test within 24 hours prior to departure to Japan and provide a **certificate of negative-test inspection**^{c)}.
- In addition, participants must comply with national border control measures^{d)}, if any, that Japan has established at the time of entry into Japan.

- a) No valid vaccine name or manufacturer is specified.
- b) **Certificate of vaccination** must be issued by an official agency of the local/national government of the country/region or a medical institution, which indicates the followings in Japanese or English: 1) the person's name, 2) date of birth, 3) name or manufacturer of the vaccine, 4) date of vaccination, and 5) number of vaccinations.

c) **Certificate of inspection**

Test method Test method is valid only for tests listed to the right.	<u>Nucleic Acid Amplification Test</u> <ul style="list-style-type: none"> - PCR (Polymerase Chain Reaction) - LAMP (Loop-mediated Isothermal Amplification) - TMA (Transcription Mediated Amplification) - TRC (Transcription Reverse-transcription Concerted reaction) - Smart Amp (Smart Amplification process) - NEAR (Nicking Enzyme Amplification Reaction) - Next Generation Sequence <u>Quantitative Antigen Test* (CLEIA/ECLIA)</u> * Not a qualitative antigen test
Sample collection method Sample collection method is valid only for methods listed to the right.	<ul style="list-style-type: none"> - Nasopharyngeal Swab - Nasal Swab** - Saliva - Nasopharyngeal and Oropharyngeal Swabs **Nasal Swab is valid when the test method is Nucleic Acid Amplification test.
Items to be included in the certificate	(1) Person's name (2) Date of birth (3) Testing method for COVID-19 (4) Sample (5) Specimen collection date and time (6) Result (7) Name of medical institution (8) Date of issue

- d) If a three-day quarantine period should be required after entry into Japan, the nominating institutions or the participants themselves must bear the cost for lodging, accommodation, etc. during that period prior to the start of the Meeting.

For Safe and Healthy Meeting

To make the meeting in which the participants will lodge together safe and healthy, please note that all the participants will be required to do the following, based on the situation of the COVID-19 infection.

- Participants must agree to undergo antigen testing ^{e)}, which will take place each morning during the period of the Meeting.
- Participants will be required to wear masks during the meeting.
- Hand sanitizing and temperature checks will be required when entering the meeting rooms.

e) Antigen testing test packages are provided free of charge by JSPS.

Cost Sharing

- JSPS will cover the cost of holding the meeting and local travel costs ^{f)}.
- JSPS will cover the cost of overseas travel insurance ^{g)}.
- JSPS will cover the cost of daily antigen testing for participants during the Meeting.
- Cooperating institutions will cover the international travel costs ^{h)} of their own participants.
- Cooperating institutions will cover the cost of PCR testing when participants enter Japan and when they re-enter their home countries.

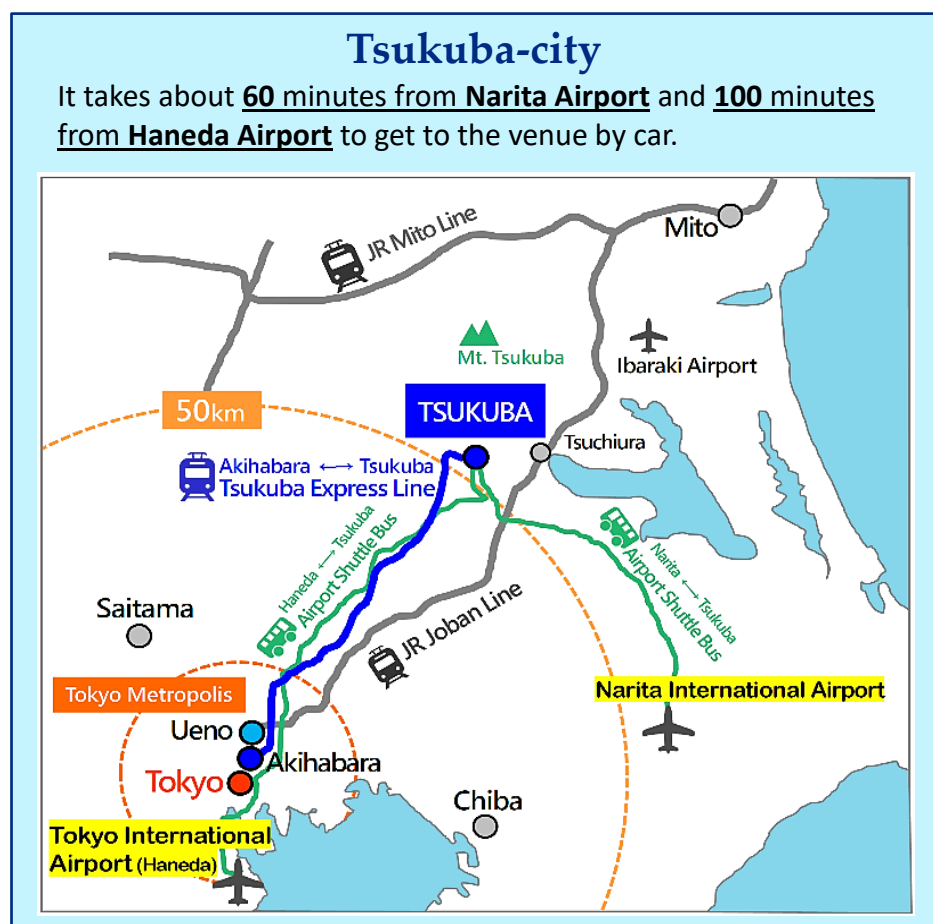
- f) 1. Accommodations at the designated hotel in Tsukuba
 check-in: 26 February, check-out: 4 March, 2023
 2. Meals: from dinner on 26 February to breakfast on 4 March
 3. Transportation between Narita/Tokyo International Airport and the hotel/meeting venue.
- g) Designated travel insurance valid during the meeting period: 26 February to 4 March.
- h) International airfare to Narita/Tokyo International Airport, Japan.

Schedule (tentative)

2022	July	Send out nomination requests to cooperating institutions
	30 September	Nomination deadline (for overseas cooperating institutions)
	Early December	Notify cooperating institutions of the selection results
	Late December	Participants prepare for their participation in the meeting (1) Submit registration forms, photos, poster presentation abstracts
2023	Mid-January	(2) Confirm travel plans, submit slides for <i>Flash Talks</i> (3) Submit certificates of vaccinations
	26 February	Hotel Check-in
	27 February - 3 March	14th HOPE Meeting
	Late March	Participants submit reports to JSPS
	April -	JSPS sends participants' reports to cooperating institutions

Venue for the Meeting

Tsukuba is a unique city. Also known as Tsukuba Science City, it is a science park developed in the 1960s. Many well-known Japanese research institutions are located in the city. Among the major national institutions are **KEK** (High Energy Accelerator Research Organization), **NIMS** (National Institute for Materials Science), **JAXA** (Japan Aerospace Exploration Agency), **AIST** (National Institute of Advanced Industrial Science and Technology), and **RIKEN**.



HOPE Meeting Secretariat

Office of the HOPE Meetings

SHIMIZU Kazuko (Ms.)

Head of International Research Cooperation Division I, International Program Department,
 Japan Society for the Promotion of Science (JSPS)

5-3-1 Kojimachi, Chiyoda-ku, Tokyo 102-0083 JAPAN

Telephone: +81-3-3263-2414 E-mail: hope-meetings@jsps.go.jp

Nomination Deadline

30 September, 2022

Outline of the Previous HOPE Meetings

1st HOPE Meeting, 2008

Lecturers:

Leo Esaki (Physics, 1973) **Chair**
Heinrich Rohrer (Physics, 1986)
Robert B. Laughlin (Physics, 1998)
Hideki Shirakawa (Chemistry 2000)
Alan Heeger (Chemistry, 2000)
and other distinguished researchers.

Date and Venue:

February 25-28, 2008 (Tsukuba, Japan)

Subjected Fields:

Nanoscience and Nanotechnology

Participants:

81 PhD students and young scientists
from the **13** countries/areas in the Asia-Pacific region:
Australia, China, India, Indonesia, Japan, Korea, Malaysia, New
Zealand, Philippines, Singapore, Taiwan, Thailand, Vietnam

2nd HOPE Meeting, 2009

Lecturers:

Leo Esaki (Physics, 1973)
Makoto Kobayashi (Physics, 2008)
Yuan Tseh Lee (Chemistry, 1986)
Ryoji Noyori (Chemistry, 2001) **Chair**
Koichi Tanaka (Chemistry, 2002)
Peter Agre (Chemistry, 2003)
Susumu Tonegawa
(Physiology or Medicine, 1987)
and other distinguished researchers.

Date and Venue:

September 28-October 1, 2009 (Hakone, Japan)

Subjected Field:

Chemistry (and related fields)

Participants:

100 PhD students and young scientists
from the **14** countries/areas in the Asia-Pacific region:
Australia, Bangladesh, China, India, Indonesia, Japan, Korea,
Malaysia, New Zealand, Philippines, Singapore, Taiwan, Thailand,
Vietnam

3rd HOPE Meeting, 2011

Lecturers:

Leo Esaki (Physics, 1973),
David J. Gross (Physics, 2004),
Makoto Kobayashi (Physics, 2008) **Chair**
Toshihide Maskawa (Physics, 2008)
Richard R. Ernst (Chemistry, 1991)
Hideki Shirakawa (Chemistry, 2000)
Ryoji Noyori (Chemistry, 2001)
Koichi Tanaka (Chemistry, 2002),
Ada Yonath (Chemistry, 2009)
and other distinguished researchers.

Date and Venue:

March 7-11, 2011 (Tokyo, Japan)

Subjected Field: Physics (and related fields)

Participants:

99 PhD students and young scientists
from the **14** countries/areas in the Asia-Pacific region:
Bangladesh, China, India, Indonesia, Israel, Japan, Korea, Malaysia,
New Zealand, Philippines, Singapore, Taiwan, Thailand, Vietnam

4th HOPE Meeting, 2012

Lecturers:

Leo Esaki (Physics, 1973)
Makoto Kobayashi (Physics, 2008) **Chair**
John Ernest Walker (Chemistry, 1997)
Ryoji Noyori (Chemistry, 2001)
Roderick Mackinnon (Chemistry, 2003)
Akira Suzuki (Chemistry, 2010)
Ei-ichi Negishi (Chemistry, 2010)
Dan Shechtman (Chemistry, 2011),
and other distinguished researchers.

Date and Venue:

March 7-11, 2012 (Tsukuba, Japan)

Theme: Chemistry for Creating the Future

Participants:

100 PhD students and young scientists from the **17** countries/areas
in the Asia-Pacific and Africa region:
Australia, Bangladesh, China, Egypt, India, Indonesia, Israel, Japan,
Korea, Malaysia, Mongolia, New Zealand, Philippines, Singapore,
Taiwan, Thailand, Vietnam

5th HOPE Meeting, 2013

Lecturers:

Leo Esaki (Physics, 1973)
Makoto Kobayashi (Physics, 2008) **Chair**
Hideki Shirakawa (Chemistry, 2000)
Ryoji Noyori (Chemistry, 2001)
Aharon Jehuda Ciechanover (Chemistry, 2004)
Susumu Tonegawa
(Physiology or Medicine, 1987)
Mario Renato Capecchi
(Physiology or Medicine, 2007)
and other distinguished researchers.

Date and Venue:

February 26-March 2, 2013 (Tokyo, Japan)

Subjected Field:

Life Sciences (and related fields)

Participants:

98 PhD students and young scientists from the **16** countries/areas
in the Asia-Pacific and Africa region:
Australia, Bangladesh, China, Egypt, India, Indonesia, Israel, Japan,
Korea, Malaysia, New Zealand, Philippines, Singapore, South Africa,
Taiwan, Thailand

Outline of the Previous HOPE Meetings

6th HOPE Meeting, 2014

Lecturers:

Makoto Kobayashi (Physics, 2008) **Chair**
Braian P. Schmidt (Physics, 2011)
Hideki Shirakawa (Chemistry, 2000)
Martin Chalfie (Chemistry, 2008)
Ei-ichi Negishi (Chemistry, 2010)
Richard J. Roberts
(Physiology or Medicine, 1993)
and other distinguished researchers.

Date and Venue:

March 11-15, 2014 (Tokyo, Japan)

Subjected Field: Physics, Chemistry, Physiology/Medicine (and related fields)

Participants:

106 PhD students and young scientists from the **19** countries/areas in the Asia-Pacific and Africa region:
Australia, Bangladesh, China, Egypt, India, Indonesia, Israel, Japan, Kenya, Korea, Malaysia, Mongolia, New Zealand, Philippines, Singapore, South Africa, Taiwan, Thailand, Vietnam

7th HOPE Meeting, 2015

Lecturers:

Johannes Georg Bednorz (Physics, 1987)
Douglas Dean Osheroff (Physics, 1996)
Makoto Kobayashi (Physics, 2008) **Chair**
Hideki Shirakawa (Chemistry, 2000)
Ei-ichi Negishi (Chemistry, 2010)
Dan Shechtman (Chemistry, 2011)
and other distinguished researchers.

Date and Venue:

March 1-5, 2015 (Tokyo, Japan)

Subjected Field: Physics, Chemistry, Physiology/Medicine (and related fields)

Participants:

97 PhD students and young scientists from the **17** countries/areas in the Asia-Pacific and Africa region:
Australia, Bangladesh, China, Egypt, India, Indonesia, Israel, Japan, Korea, Malaysia, New Zealand, Philippines, Singapore, Taiwan, Thailand, Vietnam, Turkey

8th HOPE Meeting, 2016

Lecturers:

Makoto Kobayashi (Physics, 2008) **Chair**
Serge Haroche (Physics, 2012)
Shuji Nakamura (Physics, 2014)
Jean-Marie Lehn (Chemistry, 1987)
Ada Yonath (Chemistry, 2009)
Barry J. Marshall
(Physiology or Medicine, 2005)
and other distinguished researchers.

Date and Venue:

March 7-11, 2016 (Tsukuba, Japan)

Subjected Field: Physics, Chemistry, Physiology/Medicine (and related fields)

Participants:

107 PhD students and young scientists from the **18** countries/areas in the Asia-Pacific and Africa region:
Australia, Bangladesh, China, Egypt, India, Indonesia, Israel, Japan, Korea, Malaysia, New Zealand, Philippines, Singapore, South Africa, Taiwan, Thailand, Vietnam, Myanmar

9th HOPE Meeting, 2017

Lecturers:

Klaus von Klitzing (Physics 1985)
Makoto Kobayashi (Physics, 2008) **Chair**
Takaaki Kajita (Physics, 2015)
Ryoji Noyori (Chemistry, 2001)
Jean-Pierre Sauvage (Chemistry, 2016)
Edvard I. Moser (Physiology or Medicine, 2014)
and other distinguished researchers.

Date and Venue:

February 26-March 2, 2017 (Tokyo, Japan)

Subjected Field: Physics, Chemistry, Physiology/Medicine (and related fields)

Participants:

110 PhD students and young scientists from the **22** countries/areas in the Asia-Pacific and Africa region:
Australia, Bangladesh, China, Egypt, India, Indonesia, Israel, Japan, Kenya, Korea, Malaysia, Mongolia, Myanmar, Nepal, New Zealand, Philippines, Singapore, South Africa, Taiwan, Thailand, Turkey, Vietnam

10th HOPE Meeting, 2018

Lecturers:

J. Georg Bednorz (Physics, 1987)
Makoto Kobayashi (Physics, 2008) **Chair**
Takaaki Kajita (Physics, 2015)
K. Barry Sharpless (Chemistry, 2001)
Ada Yonath (Chemistry, 2009)
J. Fraser Stoddart (Chemistry, 2016)
Tim Hunt (Physiology or Medicine, 2001)
and other distinguished researchers.

Date and Venue:

March 10-15, 2018 (Yokohama, Japan)

Subjected Field: Physics, Chemistry, Physiology/Medicine (and related fields)

Participants:

108 PhD students and young scientists from the **21** countries/areas in the Asia-Pacific and Africa region:
Australia, Bangladesh, China, Egypt, India, Indonesia, Israel, Japan, Kenya, Korea, Malaysia, Mongolia, Myanmar, Nepal, New Zealand, Philippines, Singapore, South Africa, Taiwan, Thailand, Turkey

11th HOPE Meeting, 2019

Lecturers:

Hiroshi Amano (Physics, 2014)
Takaaki Kajita (Physics, 2015) **Chair**
Aaron Ciechanover (Chemistry, 2004)
Ada Yonath (Chemistry, 2009)
Ben L. Feringa (Chemistry, 2016)
Tim Hunt (Physiology/Medicine, 2001)
and other distinguished researchers.

Date and Venue:

March 4-8 2019 (Okinawa, Japan)

Subjected Field: Physics, Chemistry, Physiology/Medicine (and related fields)

Participants:

104 PhD students and young scientists from the **19** countries/areas in the Asia-Pacific and Africa region:

Bangladesh, China, Egypt, India, Indonesia, Israel, Japan, Kenya, Korea, Malaysia, Myanmar, Nepal, New Zealand, Philippines, Singapore, South Africa, Taiwan, Thailand, Vietnam

12th HOPE Meeting, 2020

*Cancelled due to concern about Novel Coronavirus epidemic.

Lecturers:

J. Georg Bednorz (Physics, 1987)
Takaaki Kajita (Physics, 2015) **Chair**
Barry C. Barish (Physics, 2017)
Johann Deisenhofer (Chemistry, 1988)
Gregory Winter (Chemistry, 2018)
Tim Hunt (Physiology/Medicine, 2001)
Randy W. Schekman
(Physiology/Medicine, 2013)

Date and Venue:

March 9-13 2020 (Tsukuba, Japan)

Subjected Field: Physics, Chemistry, Physiology/Medicine (and related fields)

Participants:

109 PhD students and young scientists from the **22** countries/areas in the Asia-Pacific and Africa region:

Bangladesh, China, Egypt, India, Indonesia, Israel, Japan, Kenya, Korea, Malaysia, Mongolia, Myanmar, Nepal, New Zealand, Philippines, Senegal, Singapore, South Africa, Taiwan, Thailand, Turkey, Vietnam

13th HOPE Meeting, 2022

*Online meeting via web conferencing system .

Lecturers:

Donna STRICKLAND (Physics 2018)
Barry C. BARISH (Physics 2017)
KAJITA Takaaki (Physics 2015) **Chair**
YOSHINO Akira (Chemistry 2019)
Gregory WINTER (Chemistry 2018)
William E. MOERNER (Chemistry 2014)
Kurt WÜTHRICH (Chemistry 2002)
Randy W. SCHEKMAN
(Physiology/Medicine 2013)
Tim HUNT (Physiology/Medicine 2001)

Date and Venue:

March 7-11 2022 (**ONLINE**)

Subjected Field: Physics, Chemistry, Physiology/Medicine (and related fields)

Participants:

91 PhD students and young scientists from the **21** countries/areas in the Asia-Pacific and Africa region:

Australia, Bangladesh, China, Egypt, India, Israel, Japan, Kenya, Korea, Malaysia, Myanmar, Nepal, New Zealand, Philippines, Senegal, Singapore, South Africa, Taiwan, Thailand, Turkey, Vietnam

