

For Overseas Cooperating Institutions

 HOPE MEETINGS
with Nobel Laureates



12th HOPE MEETING

with Nobel Laureates

Objective

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.

Date

9-13 March, 2020

Venue

Tsukuba, JAPAN

Organizer

JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE



JSPS

Office of the HOPE Meetings, JSPS

E-mail hope-meetings@jsps.go.jp

Tel: +81-3-3263-2414

Fax: +81-3-3234-3700

Program of the 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)



| Date | AM | | | PM | | |
|-----------------|--------------------|----------------|-------------------|-------------------------------|------------------------------------|------------------|
| MON, 9 Mar. | Opening Ceremony | Lecture 1 | Lecture 2 | Group Discussions | Flash Talks | Reception Dinner |
| TUE, 10 Mar. | Lecture 3 | Poster Session | Lecture 4 | Group Discussions | | Cultural Program |
| WED, 11 Mar. | Lecture 5 | Poster Session | Group Discussions | Cultural Site Visit Excursion | | |
| THU, 12 Mar. | Lecture 6 | Poster Session | Lecture 7 | Panel Discussion | Preparation for Team Presentations | |
| FRI, 13 Mar. | Team Presentations | | Closing Ceremony | Research Institution Visit | | |

Tentative (as of June 2019)

Organizing Committee of the HOPE Meetings

■ Chair

Takaaki Kajita <Nobel Laureate in Physics 2015>

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

■ Members

Toru Iijima

Nagoya University

Noriko Osumi

Tohoku University

Mitsuhiko Shionoya

The University of Tokyo

Hiroyuki Takeda

The University of Tokyo

Akira Fujimaki

Nagoya University

Minoru Yoshida

RIKEN / The University of Tokyo

Participants

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

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

Selection Criteria

Participants are selected based on the following criteria:

- Be a PhD student or young researcher (receiving their PhDs after 2 April 2014) with excellent academic performance
- Have not been selected to participate in the past HOPE Meetings
- Be able to participate in the entire Meeting program
- An excellent record of research and a high interest in the societal influence of scientific knowledge and its utilization
- Strong interest in a wide scope of science and research
- Expectation that the applicant will go on to advance future research in the subject field(s)
- Expectation that by participating in the meeting the applicant will initiate joint research and/or build collegial networks in the future
- A strong desire to participate actively in the meeting exchanges and discussions
- Ample English proficiency to do so

Cost Sharing

- JSPS will cover the cost of holding the meeting, travel costs* and overseas travel insurance**
- Cooperating institutions will cover the international travel expenses*** of their own participants

* Accommodations at the designated hotel in Tsukuba (check-in: 8 March, check-out: 14 March, 2020), meals (from dinner on 8 March to breakfast on 14 March) and transportation between Narita/Tokyo International Airport and the hotel/meeting venue.

** Designated travel insurance valid during the meeting period (8 to 14 March).

*** International airfare to Narita/Tokyo International Airport, Japan.

Schedule (tentative)

| | | |
|------|----------------|---|
| 2019 | June | Send out nomination requests to cooperating institutions |
| | 30 September | Nomination deadline (for cooperating institutions) |
| | Early December | Notify cooperating institutions of the selection results |
| | Late December | Participants prepare for participation in meeting (1) submit registration forms, photos, abstracts |
| 2020 | Mid-January | (2) confirm travel plans, submit slides for Flash Talks |
| | 8 March | Hotel Check-in and Orientation |
| | 9 - 13 March | 12th HOPE Meeting |
| | Late March | Participants submit reports |
| | April - | Send reports to cooperating institutions |

Nomination Deadline

30 September, 2019

E-mail hope-meetings@jsps.go.jp

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

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 lecturers.

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