

A History and Activities of JACG –40 years–

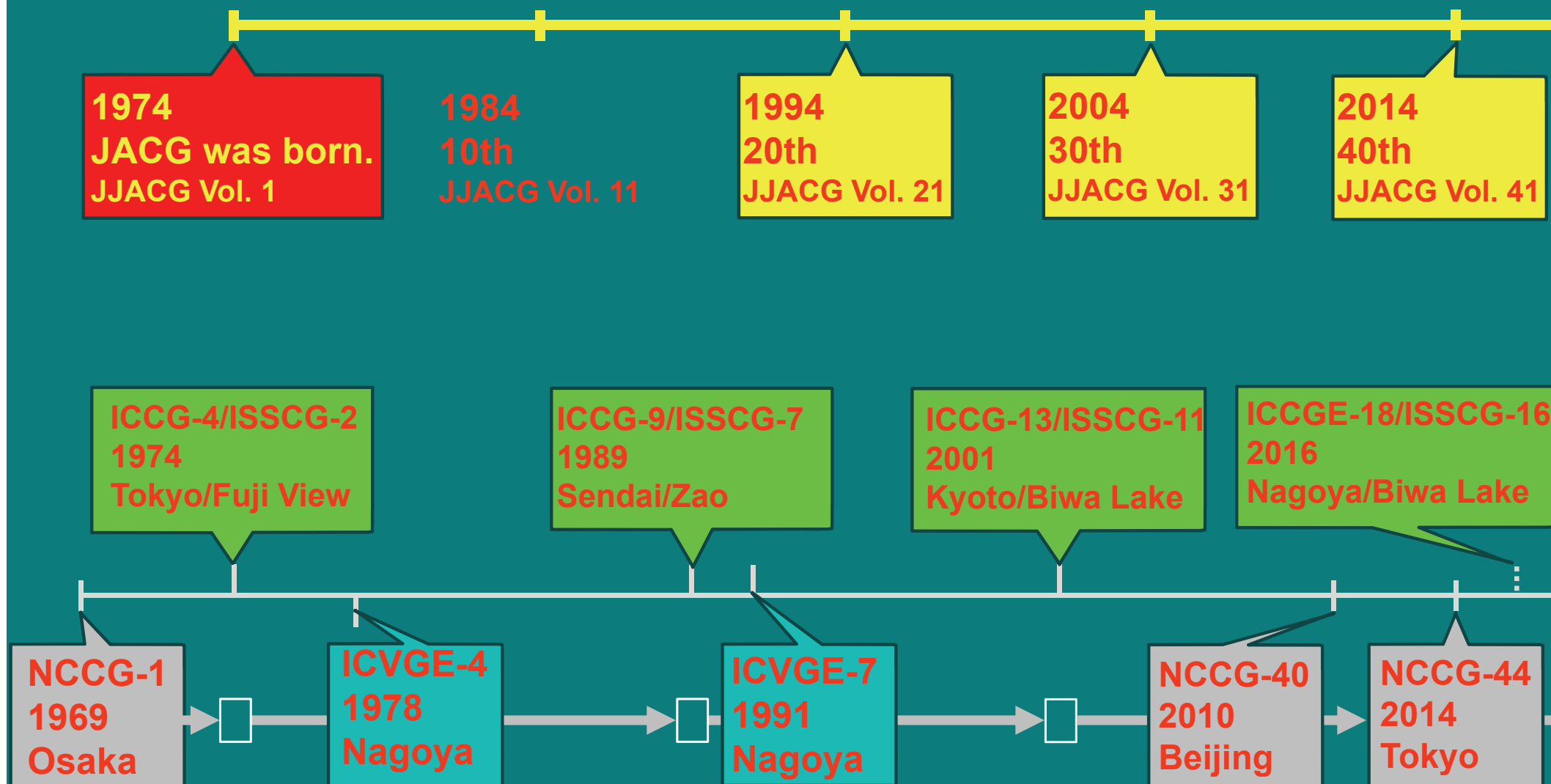
Yoshikazu Takeda
(JACG President: 2010-2012)

Aichi Synchrotron Radiation Center
Graduate School of Engineering, Nagoya University

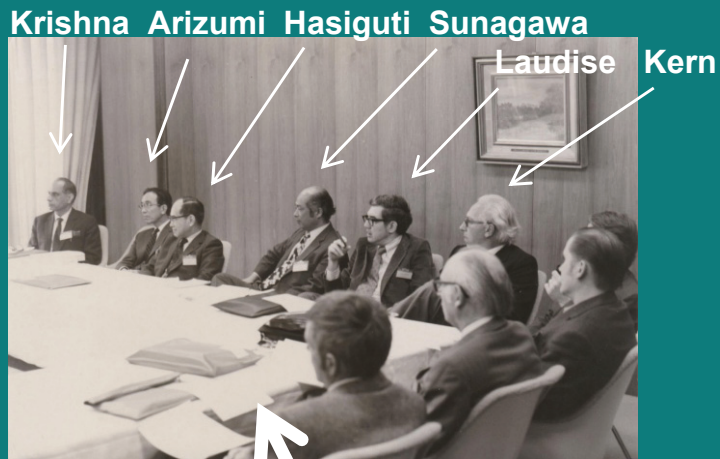
takeda@astf.or.jp
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40th Anniversary of JACG, Nov. 5-8, 2014, Gakushuin

JACG and IOCG (1)



JACG and IOCG (1)



ICCG-4/ISSCG-2
1974
Tokyo/Fuji View

ICCG-9/ISSCG-7
1989
Sendai/Zao

ICCG-13/ISSCG-11
2001
Kyoto/Biwa Lake

ICCGE-18/ISSCG-16
2016
Nagoya/Biwa Lake

NCCG-1
1969
Osaka

ICVGE-4
1978
Nagoya

ICVGE-7
1991
Nagoya

NCCG-40
2010
Beijing

NCCG-44
2014
Tokyo

JACG and IOCG (2)

1974
JACG was born.
JJACG Vol. 1

1984
10th
JJACG Vol. 11

1994
20th
JJACG Vol. 21

2004
30th
JJACG Vol. 31

2014
40th
JJACG Vol. 41

EC
R.R. Hasiguti
Council
R.R. Hasiguti
N. Kato
I. Sunagawa

EC
I. Sunagawa
Council
T. Arizumi
R.R. Hasiguti
I. Sunagawa
N. Kato

EC
--
Council
T. Arizumi
R.R. Hasiguti
I. Sunagawa

EC
H. Komatsu
I. Sunagawa
Council
T. Nishinaga
I. Sunagawa
T. Nishinaga
T. Ogawa

President
T. Nishinaga
EC
H. Komatsu
Council
T. Nishinaga
K. Sato
H. Komatsu

Treasurer
T. Ohachi
Past President
T. Nishinaga
EC
K. Sato
Council
S. Kimura
K. Kitamura
Y. Furukawa

Vice-President
T. Ohachi
EC
K. Kakimoto
Council
T. Sasaki
Y. Mori
T. Hibiya

Vice President
K. Kakimoto
EC
Y. Mori
Council
A. Koukitu
Y. Takeda
M. Uwaha

'71

'74

'77

'80

'83

'86

'89

'92

'95

'98

'01

'04

'07

'10

'13

'16

EC
R.R. Hasiguti
Council
T. Arizumi
N. Kato
I. Sunagawa
A. Higashi

EC
I. Sunagawa
Council
T. Arizumi
R.R. Hasiguti
I. Sunagawa

EC
H. Komatsu
Council
R.R. Hasiguti
T. Nishinaga
T. Ogawa

Vice-President
T. Nishinaga
EC
I. Sunagawa
Council
J. Chikawa
T. Ohachi
H. Komatsu

President
T. Nishinaga
EC
T. Ohachi
Council
M. Uwaha
K. Kitamura
H. Takei

Vice-President
T. Ohachi
EC
K. Kakimoto
Council
T. Sasaki
Y. Hayakawa
K. Kakimoto

Secretary
K. Kakimoto
EC
Y. Mori
Council
A. Koukitu
Y. Takeda
M. Uwaha

JACG and IOCG (3)

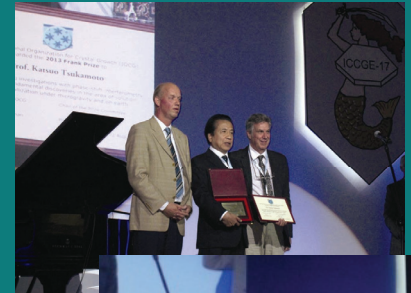
–Prizes and Award from IOCG–



1989
Laudise Prize:
Jun-ichi Nishizawa



2004
Laudise Prize:
Tatau Nishinaga



2013 Frank Prize:
Katsuo Tsukamoto
Shieber Prize:
Yuki Kimura



1998
Laudise Prize:
Isamu Akasaki

2007
Distinguished
Service Award:
Ichiro Sunagawa



1969 NCCG-1(Osaka University)

12 academic societies* organized NCCG in turn;
when one society organized an NCCG, other 11
societies supported it.

the Japanese Society of Applied Physics,
the Society for Polymer Science,
the Institute of Electronics, Information and
Communication Engineers of Japan,
Japan Foundry Society,
the Chemical Society of Japan,
the Japan Institute of Metals,
the Crystallographic Society of Japan,
Japan Association of Mineralogical Sciences,
the Iron and Steel Institute of Japan,
the Physical Society of Japan,
the Pharmaceutical Society of Japan,
the Ceramic Society of Japan

1974

ICCG-4 (March, Tokyo)

JACG was organized (May).

The first president was Prof. Ryukiti Hasiguti
(He insisted this notation) at the University of Tokyo.

NCCG-6 (November, Tokyo)

JJACG Vol. 1 was issued in November.

1st Hohdankai



Prof. Ryukiti Hasiguti



JJACG No. 1, Vol. 1



1974

IOCG Meeting at ICCG-4



ISSCG-2, Fuji View Hotel, (March-April, 1974)

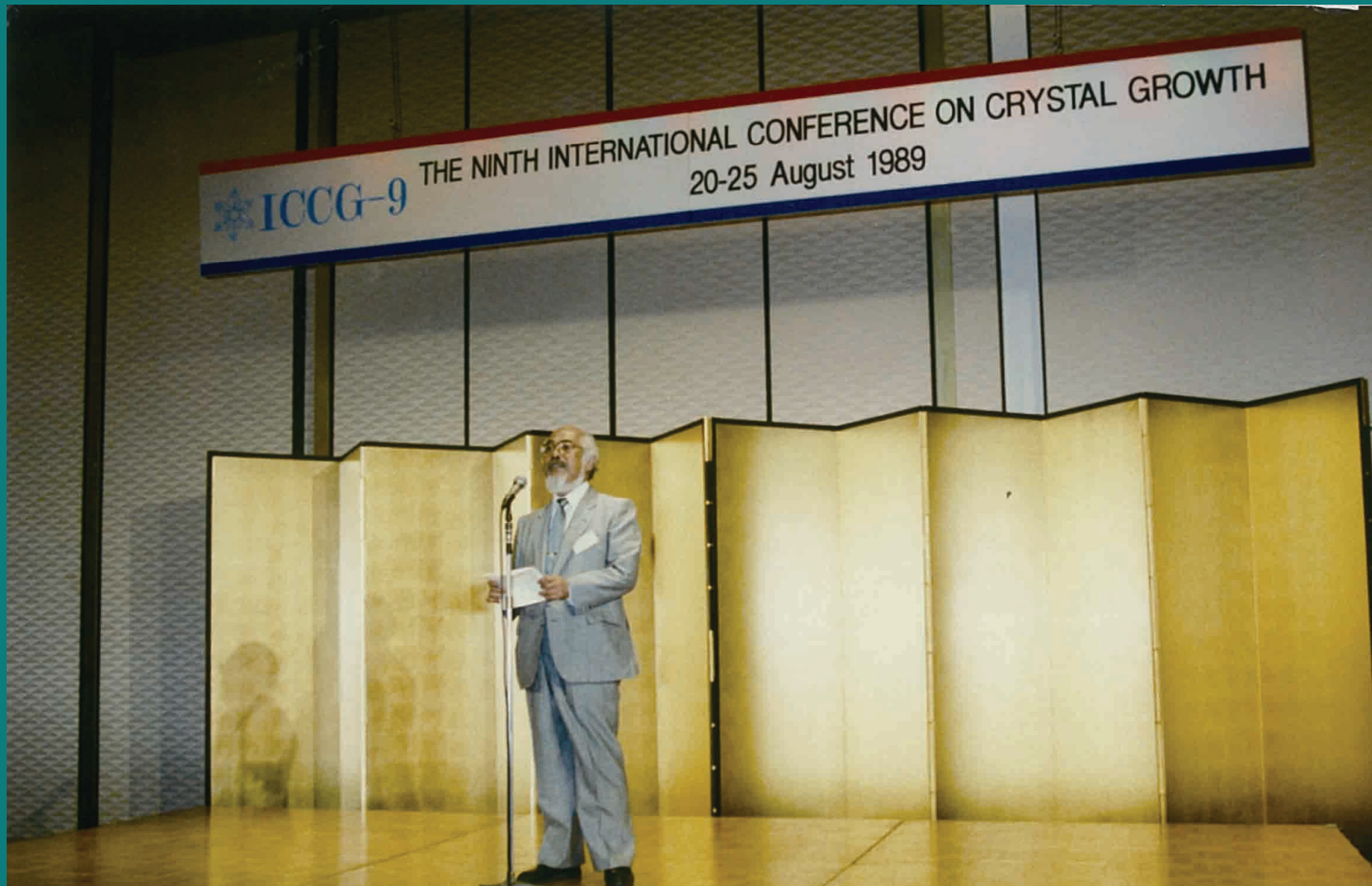


First Hohdankai (Aone Hot Spring, Aug. 1974)



How the Hohdankai looks like (Ao-ne Hot Spring, Aug. 1987)

1989 **ICCG-9, Sendai**



Opening Address by Prof. Sunagawa



ISSCG-7, Zao, (Aug. 1989)

2001 ICCG-13, Kyoto



Opening Address by Prof. Nishinaga



ISSCG-11, Biwa Lake, (Aug. 1989)

2006 NCCG-36

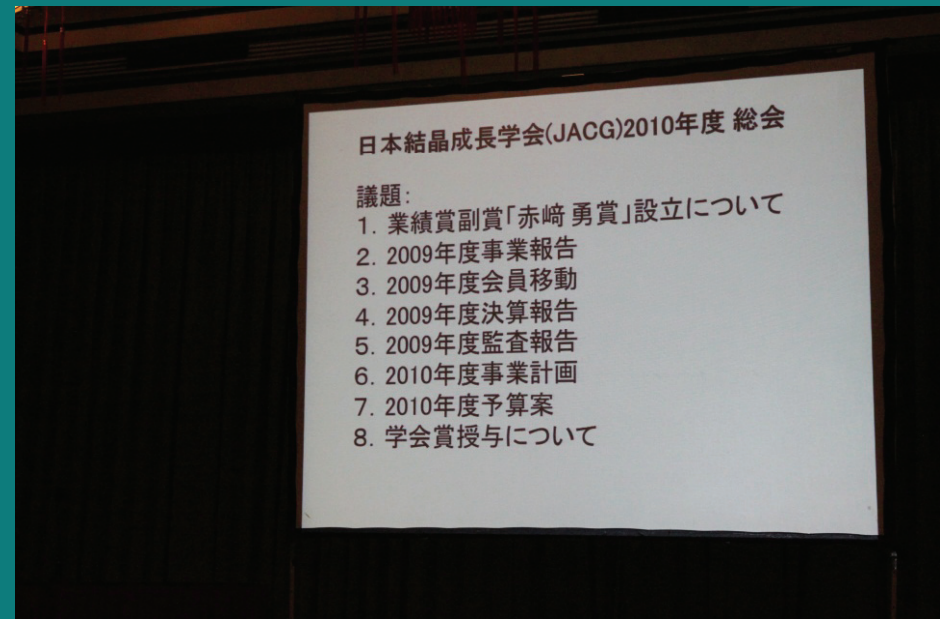
The Japanese Association for Crystal Growth and
the Association of Synthetic Crystal Science and
Technology **unified.**

The JACG started in 1974.
The ASCST started in 1955.



2010 NCCG-40

We celebrated the 40th National (Japanese)
Conference on Crystal Growth in Beijing
prior to ICCG-16/ICVGE-14.





Awards Ceremony
We did it exactly
as we do in Japan.





Guests and audiences.



**Chernov,
IOCG President**

**Fornari,
Next IOCG
President**



To the Member of JACG (1)

March 17, 2011

We wish to express the solidarity and sorrow of the Japanese Association for Crystals Growth to the members, their family, relatives, friends and acquaintances who are suffering the damage by the North Japan Great Earthquake and Tsunami.

Additional problems of the Fukushima N-power plants are also a big and serious anxiety. We hope a steady and patient work to cool down the reactors.

The JACG want to know the safety of the members and help them as much as possible.

Please send your email message to the JACG Office (jacg@words-smile.com) checking items below. We would like to upload those informations (2) and (3) if it is agreed.

(1) Please inform your safety (This reply is not uploaded.)

☐ Safe ☐ Damaged (How:)

【Your name: Your institution/company: 】

email addresses you want to inform this information:

(2) Support you need ()

☐ Upload ☐ Do not upload

(3) Other message ()

☐ Upload ☐ Do not upload

Yoshikazu Takeda

The president of JACG

To the Member of JACG (2)

April 22, 2011

The huge damage by the North Japan Great Earthquake and Tsunami and Problems of the Fukushima N-power plants are really a crisis of Japan. Worries and efforts in the suffering area are far beyond our imagination. We do hope quick recovery of the suffering area and people there, and to the other area further efforts and development of are required to save the whole Japan from retardation.

As the 2nd action of JACG, we conduct exemption and payback of the 2011 annual membership fee of the suffering member of JACG.

We hope your understanding and cooperation on this action.

To the members with no damage

1) We ask you donations from the regular, student, and supporting members.

Using the donation together with donation (3000 Euro) from the German Association and Polish Association for Crystal Growth, we exempt the suffered members from the 2011 annual membership fee.

2) Please transfer more than one unit (5,000 Yen/unit) to the Bank Account below;

Bank of Tokyo-Mitsubishi UFJ,

Ikebukuro Branch,

1-5-6 Higashi Ikebukuro, Toshima-ku, Tokyo 170-0013, Japan

NIHON KESSHO SEICHO GAKKAI

Account No. 7735548

SWIFT CODE : BOTKJPJT356

The JACG Office: the Japanese Association for Crystal Growth
2-62-8 Higashi Ikebukuro, Toshima-ku, Tokyo 170-0013, Japan
(Notification of your membership number and name is helpful.)

If the donations are more than enough to cover the membership fees, the admission fee to NCCG-41 is exempted from the suffering members. If there still is remaining money, it is donated to the suffering people through Red Cross and others.

To the members with damage

- 1) Please send a letter to the JACG office below together with a letter of your institution, supervisor, or local government, which certifies your damage suffered by the north Japan great earthquake and tsunami. E-mail and attached file of the letters are also accepted.
- 2) If you have already paid the membership fee, it is paid back to your bank account. In this case, please inform you bank and account to the JACG office together with letters in 1).
- 3) If you have not paid 2011 membership fee, send letters in 1).
- 4) If you have not paid membership fee(s) before 2010, please send the membership fees of and before 2010.

Y. Takeda

The President of JACG

But, very few people applied. Why?

To the Member of JACG

**-the JACG Actions on the East Japan Great Earthquake and
Tsunami Hazards-**

[-Message \(2\) from the JACG President \(22 April, 2011\)](#)

[-Message \(1\) from the JACG President \(17 March, 2011\)](#)

-Support from Overseas-

[-3,000Euro/German Association of Crystal Growth\(DGKK\) and Polish
Society for Crystal Growth\(PTWK\)](#)

[-1,000\\$/T.P. Pearsall \(General Secretary EPIC 17, rue Hamelin 75783
Paris Cedex 16 France\)](#)

[- 5,000\\$/Dr. & Mrs. Chernov\(Lawrence Livermore National Laboratory\)](#)

–Reports on the JACG Action –
With sincere gratitude for your support

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Relief-Fund Raising for the East Japan Great Earthquake(for suffered JACG members)

Yen	
Donations in Total	1,168,860
Items	
JACG Members	365,000
In Detail (University 19 (including OBs), Research Institute 1, Company 10)	
DGKK and PTWK	350,250
European Photonics Industry Consortium(Thomas Pearsall)	80,360
Dr. Chernov	373,250

€ 3,000

US\$1,000

US\$5,000

Yen	
Supports in Total	1,168,860
Items	
Exemption from Membership Fee(2011-2013)	444,000
Regular Member 12 (Tohoku Univ. 8, JST Miyagi 1, NIMS 3)	
Student Member 13 (Tohoku Univ. 13)	
Handling Fee(262×19+420×1)	2,778
Special Lecture(Report on Tohoku Univ. Case and Measures: Jul. 10, 2011)	52,110
Support for Registration Fee and Travelling Cost	490,236
International Conferences(444,236: Tohoku Univ. 5)	
Domestic Conferences(46,000 : Tohoku Univ. 2, JST(Miyagi) 1)	
Handling Fee(262 × 1+420×6)	2,782
International Crystal Growth School in Sendai (Jul. 25-28, 2012)	176,534
Handling Fee	420

Annual Membership Fee: Regular 8,000, Student 4,000

Breaking News!!

2014 Physics Prize



Ill: N. Elmehed. © Nobel Media 2014

2014 Nobel Prize in Physics

The [Nobel Prize in Physics 2014](#) was awarded jointly to [Isamu Akasaki](#), [Hiroshi Amano](#) and [Shuji Nakamura](#) "for the invention of efficient blue light-emitting diodes which has enabled bright and energy-saving white light sources".

→ [Press release](#)



[Cookie policy](#)



The Nobel Prize
"I was so happy. ..."

SOUNDCLOUD



3:53

▶ 7,085

Physics Laureate Shuji Nakamura: "I was so happy. And I was so surprised!"

Shuji Nakamura was asleep in California when he got the call that he had been awarded the 2014 Nobel Prize in Physics together with Isamu Akasaki and Hiroshi Amano. But now there's "No time for sleep. No time for rest.". Hear how he reacted when he got the call from Stockholm.

→ [Transcript of the interview](#)



[Cookie policy](#)



The Nobel Prize
"I was overwhe..."

SOUNDCLOUD



3:18

Isamu Akasaki: "I was overwhelmed."

Hear Isamu Akasaki talk about his reaction and the many congratulatory messages he received: "This shows the authority and greatness of the Nobel Prize".

→ [Transcript of the interview](#)



**Professor Isamu AKASAKI
and Professor Hiroshi Amano
are active member of JACG.**

At the press conference, Nagoya University (Oct. 10, 2015)

PRIZES AND AWARDS (Reds are by JACG or IOCG)

1989 The Best Paper Award of JACG (Akasaki)

1991 The Chunich Culture Prize (Akasaki)

1994 The Optoelectronics Conference Special Award (Akasaki, Amano, Nakamura)

1995 The JACG Technological Contribution Award (20th Anniversary of JACG)
(Akasaki)

1995 The GaAs Symposium Award and the Heinrich Welker Gold Medal (Akasaki)

1994 The IEEE/LEOS Engineering Achievement Award (Akasaki, Amano, Nakamura)

1995 The Medal with Purple Ribbon (Akasaki)

1996 The Inoue Harushige Award (Akasaki, TG)

1998 The Laudise Prize (Akasaki)

1998 Outstanding Review Paper Award (JSAP) (Akasaki, Amano)

1998 The C&C Prize (Akasaki, Nakamura)

1998 The IEEE Jack A. Morton Award (Akasaki, Nakamura)

1998 The Rank Prize (Nakamura, Akasaki, Amano, Pankove)

1999 The ECS Solid State Science & Technology Award (Akasaki)

2000 The Toray Science and Technology Prize (Akasaki)

2001 The Asahi Prize (Akasaki, Nakamura)

2001 The Marubun Academic Award (Amano)

- 2002 The Fujihara Prize (Akasaki)
- 2002 The Order of the Rising Sun, Gold Rays with Neck Ribbon (Akasaki)
- 2002 Honorable Member of JSAP (Akasaki)
- 2002 The Takeda Award (Akasaki, Amamo, Nakamura)
- 2003 The President's Award of the Science Council of Japan (Akasaki)
- 2003 The SSDM Award (Akasaki, Amano)
- 2004 Acknowledged as Person of Cultural Merits (Akasaki)
- 2004 The Tokai TV Culture Prize (Akasaki)
- 2006 The TMS John Bardeen Award (Akasaki)
- 2006 The Outstanding Achievement Award of JACG (Akasaki)
- 2007 The Honorable Lifetime Achievement Award of the 162nd Research Committee on Wide Bandgap Semiconductor Photonic and Electronic Devices of JSPS (Akasaki)
- 2008 The Best Paper Award of JACG (Amano)
- 2009 The Kyoto Prize (Akasaki)
- 2010 Akasaki Prize was established in JACG (Akasaki)
- 2011 The IEEE Edison Medal (Akasaki)
- 2011 The Minami-Nippon Culture Prize–Honorable Prize (Akasaki)
- 2011 The Order of Culture (from the Emperor in person) (Akasaki)
- 2011 Honorable Member of The Japan Society of Applied Physics (Akasaki)

2012 The Technological Award of the JACG (Toyoda Gosei: Shibata, Uchida, Saito, and Okuno, Nichia: Mukai, Nagahama, Moritya, and Narukawa)

2013 IEEE Life Fellow (Akasaki)

2013 Honorable Member of The Chemical Society of Japan (Akasaki)

2013 Honorable Member of The Physical Society of Japan (Akasaki)

2013 The SID K. F. Braun Prize (Akasaki)

2014 The Okawa Publication Prize (Akasaki)

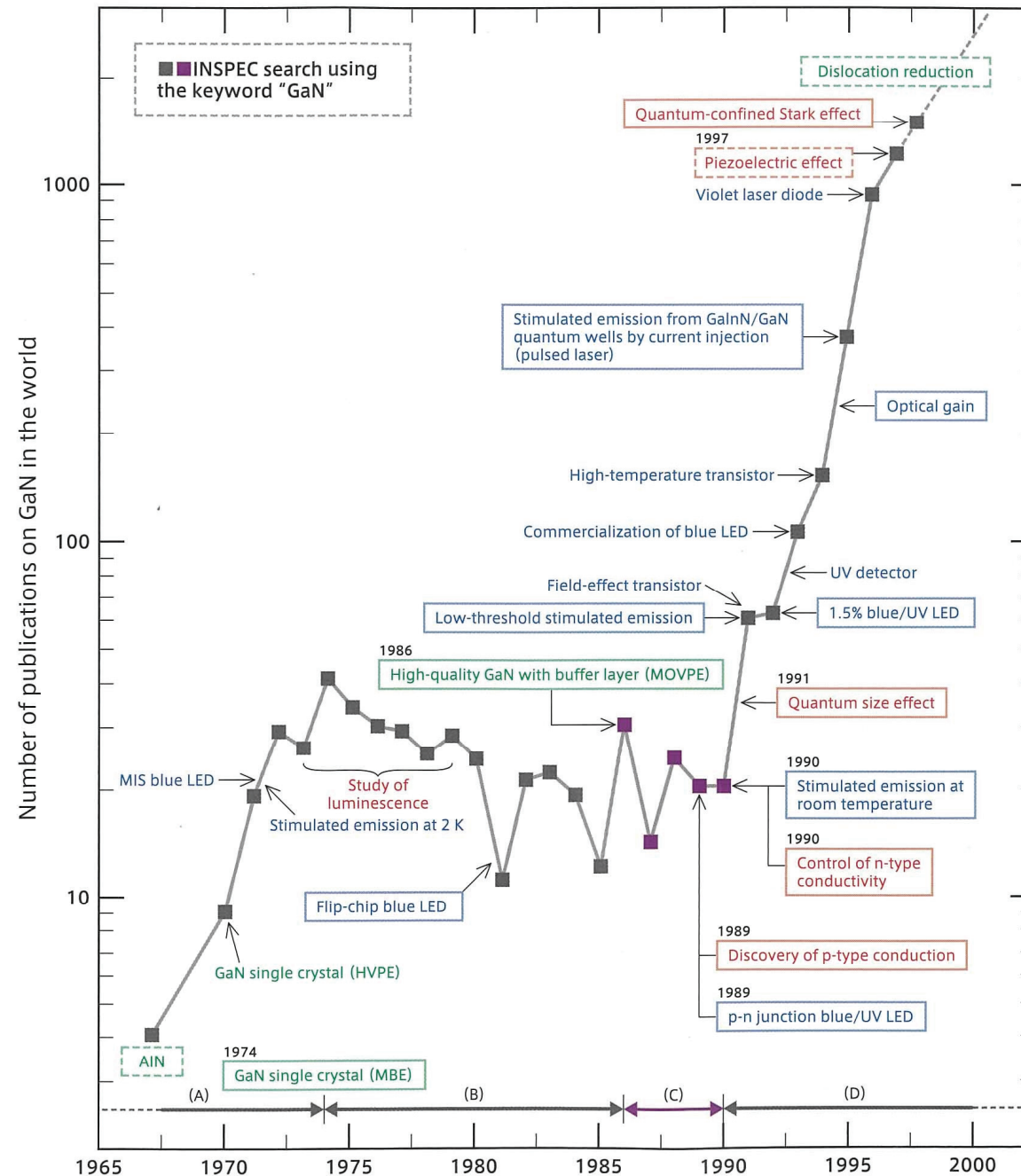
2014 Imperial Prize・The Japan Academy Prize (Akasaki)

2014 The Nobel Prize in Physics (Akasaki, Amano, Nakamura)

The achievements in $\square$ are by Akasaki and Amano, and their group.

It is clearly seen that fabrication of p-n junction LED initiated the steep and continuing increase of publication.

Significant Achievements in Research and Development of Group-III Nitride Semiconductor Materials and Devices



Prof. S. Nakamura

Relation to us:

2001

ICCG-13

International Advisory Committee

S. Nakamura (USA),

ICVGE-11 Committee

Chair: K. Takahashi (Teikyo Univ. of Sci. & Tech.) H. Amano (Meijo Univ.)

S. Nakamura (Univ. of California Santa Barbara),

2007

Czochralski Award (E-MRS; Polish Society of Crystal Growth is a cosponsor.)

ICCGE-18

Nagoya, Japan

ISSCG-16

Otsu, Shiga, Japan



Committee

ICCGE-18 Organizing Committee



Co-Chair:
Prof. Koichi KAKIMOTO
Kyushu University



Co-Chair:
Prof. Yasuhiko ARAKAWA
The University of Tokyo



Secretary:
Prof. Yusuke MORI
Osaka University



Program Committee, Chair:
Prof. Hiroshi FUJIOKA
The University of Tokyo



Publication Committee, Chair:
Prof. Satoshi UDA
Tohoku University



Local Arrangement Committee, Chair:
Prof. Hiroshi AMANO
Nagoya University

ISSCG-16 Organizing Committee



Chair:
Prof. Gen SAZAKI
Hokkaido University



Vice Chairs:
Prof. Shigeya NARITSUKA
Meijo University



Dr. Hiroki NADA
AIST



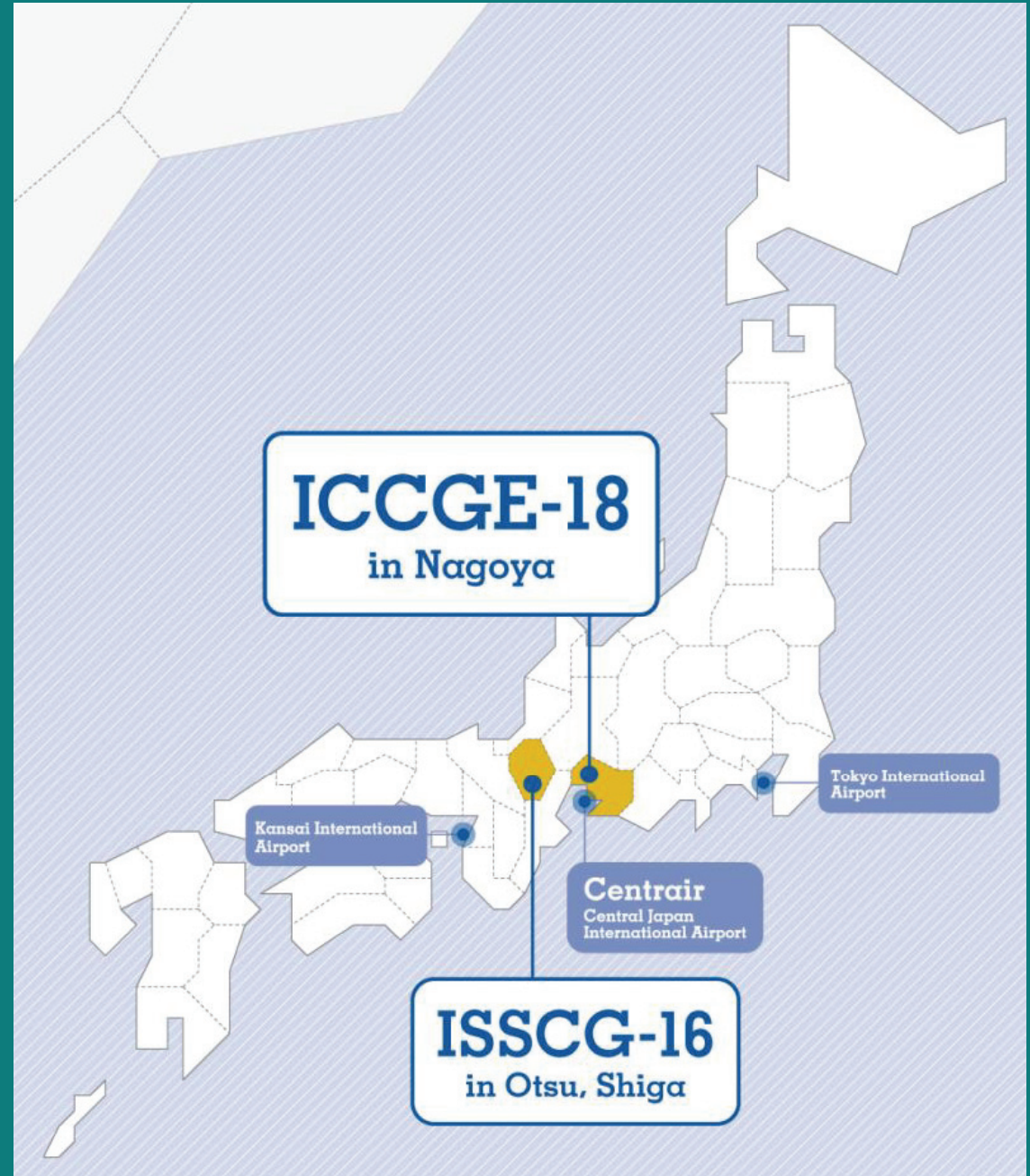
Special Adviser:
Prof. Emeritus Tatau NISHINAGA
University



Special Adviser:
Prof. Emeritus Tadashi OHACHI
Doshisha University

Geography of venue – center of Japan

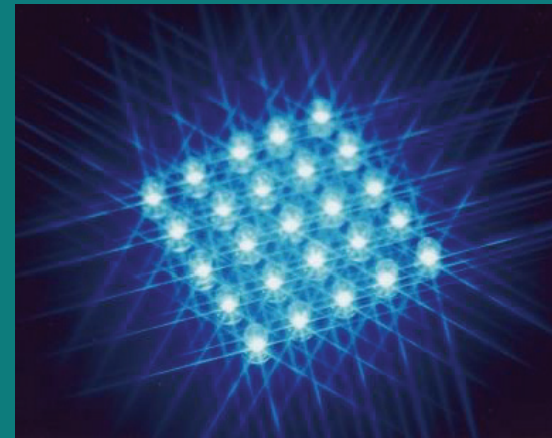
ICCGE-18 Central position in Japan



Nagoya perfect conference city – science & industry



◆Birth place of blue light-emitting diodes



LED array



BlueLED

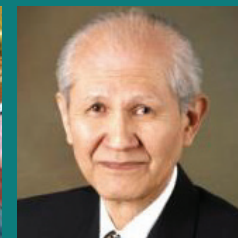
◆World-class research excellence–Four Nobel Prize laureates from Nagoya–



Dr.
Ryoji
NOYORI



Dr.
Toshihide
MASKAWA



Dr.
Osamu
SHIMOMURA

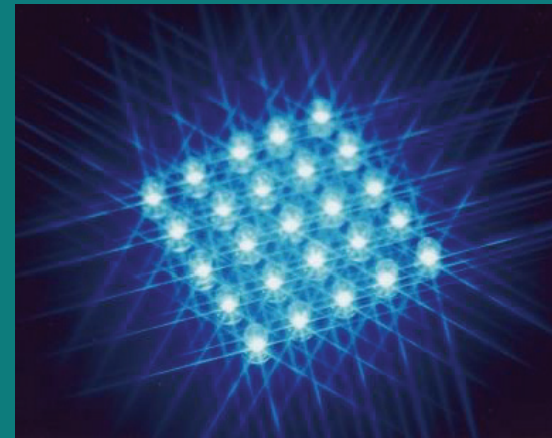


Dr.
Makoto
KOBAYASHI

Nagoya perfect conference city – science & industry



◆Birth place of blue light-emitting diodes



LED array



BlueLED

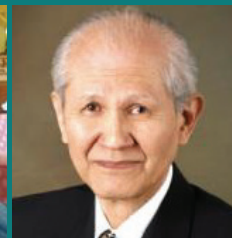
◆World-class research excellence—~~Four~~ ^{Six} Nobel Prize laureates from Nagoya—



Dr.
Ryoji
NOYORI



Dr.
Toshihide
MASKAWA



Dr.
Osamu
SHIMOMURA



Dr.
Makoto
KOBAYASHI



Dr.
Isamu
AKASAKI

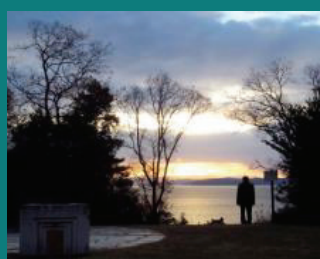
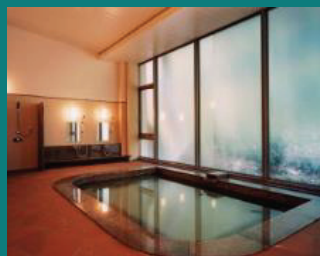
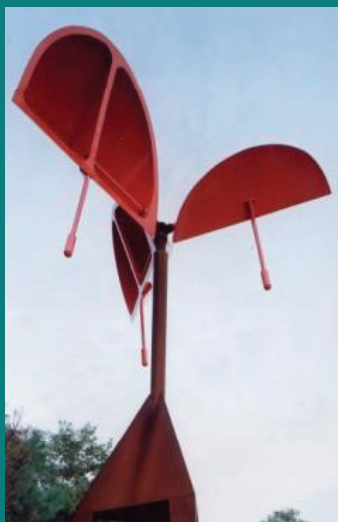
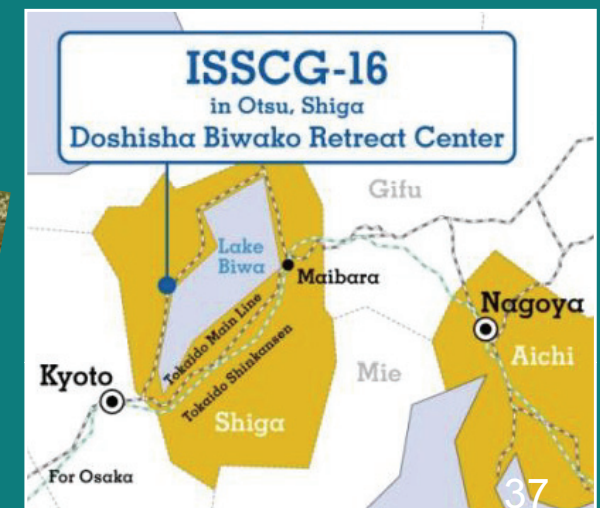
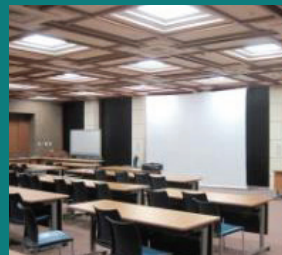


Dr.
Hiroshi
AMANO

Venue

ISSCG-16

Doshisha Biwako Retreat Center



Planted by ISSCG in 2001.