

The 18th International Conference  
on Crystal Growth and Epitaxy

# ICCGE-18



Nagoya, Japan  
August 7<sup>th</sup> - 12<sup>th</sup>, 2016

Venue Nagoya Congress Center

Abstract Deadline **March 18<sup>th</sup>, 2016**

<http://www.iccge18.jp/>

in conjunction with

The 16th International Summer School  
on Crystal Growth

# ISSCG-16

Lake Biwa, Shiga, Japan  
August 1<sup>st</sup> - 7<sup>th</sup>, 2016

Venue Doshisha Biwako Retreat Center

<http://www.iccge18.jp/isscg16/>

Organized by



The Japan Society of Applied Physics

## Scope of ICCGE-18

The 18th International Conference on Crystal Growth and Epitaxy (ICCGE-18) will be held on August 7-12, 2016, in Nagoya, Japan. The conference will provide presentation and discussion sessions on recent research and development activities in all aspects of crystal growth. The conference will consist of general and topical sessions. Topical sessions are planned for nanostructure fabrication, magnetic semiconductors, wide-bandgap semiconductors and other topics, while the general sessions may include the theory of crystal growth, pattern formation, the bulk crystal growth of semiconductors and oxides, protein crystal growth and epitaxial thin-film growth. The technical program will include both oral and poster sessions, as well as plenary and invited talks to provide a complete picture of the latest developments in the field. Some of the sessions will be jointly organized with the IUCR Committee on Crystal Growth.



Nagoya Congress Center



Prof. I. Akasaki



Toyoda Auditorium



Prof. H. Amano

## Plenary Speakers

**Isamu Akasaki** (Meijo University, Japan) **2014 Nobel Prize Laureate**

**Hiroshi Amano** (Nagoya University, Japan) **2014 Nobel Prize Laureate**

**Daan Frenkel** (University of Cambridge, UK)

**Zbigniew Galazka** (IKZ Berlin, Germany)

**Zhanggui Hu and Chuangtian Chen** (Chinese Academy of Sciences, China)

**Thomas Kuech** (University of Wisconsin, USA)

**Frances Ross** (IBM Yorktown Heights, USA)

## Important Dates

- **December 1, 2015** Start of abstract submission
- **January 12, 2016** Start of registration
- **March 18, 2016** Abstract submission deadline
- **April 30, 2016** Notification of abstract acceptance
- **May 1, 2016** Start of proceedings manuscript submission
- **May 31, 2016** End of early registration
- **July 1, 2016** Conference schedule announced
- **July 15, 2016** Deadline of proceedings manuscript submission
- **July 25, 2016** End of on-line registration
- **August 7, 2016** Beginning of ICCGE-18

## Category Plan & Category Chairs

### ■ General Session (Fundamentals & Growth Technologies)

#### G01 Fundamentals of Nucleation and Crystal Growth

Makio Uwaha (Aichi Inst. of Tech.) / Peter Vekilov (Univ. of Houston)

#### G02 Surfaces and Interfaces

Gen Sasaki (Hokkaido Univ.) / Elias Vlieg (Radboud Univ. Nijmegen)

#### G03 Nanomaterials and Low Dimensional Structures

Lutz Geelhaar (Paul-Drude-Institut für Festkörperelektronik) / Junichi Motohisa (Hokkaido Univ.) / Shigeya Naritsuka (Meijo Univ.)

#### G04 Thin Films and Epitaxial Growth

Joan Redwing (Penn State Univ.) / Masakazu Sugiyama (The Univ. of Tokyo)

#### G05 Organic and Biological Crystallization

Garcia Ruiz (Univ. of Granada) / Yoshihisa Suzuki (Tokushima Univ.) / Junpei Yamanaka (Nagoya City Univ.)

#### G06 Bulk Crystal Growth

Sonia Baldochi (Nuclear and Energy Research Institute, IPEN-CNEN/SP) / Matthias Bickermann (IKZ) / Akira Yoshikawa (Tohoku Univ.)

#### G07 Defect Formation

Janakiraman Kumar (Anna Univ.) / Ichiro Yonenaga (Tohoku Univ.)

#### G08 Advanced Growth Technologies

Geetha Balakrishnan (Univ. of Warwick) / Zhenxiang Cheng (Univ. of Wollongong) / Hideo Kimura (NIMS)

#### G09 In situ Observation and Characterization

Jim De Yoreo (PNNL) / Katsuo Tsukamoto (Osaka Univ. / Tohoku Univ.)

#### G10 External Fields, Microgravity

Aleksandar Ostrogorsky (Illinois Inst. of Tech.) / Satoshi Uda (Tohoku Univ.)

#### G11 Industrial Crystallization

François Puel (Paris Saclay Univ.) / Kiyoshi Shimamura (NIMS)

### ■ Topical Session (Materials & Applications)

#### T01 III-V Semiconductors

Michal Bockowski (Inst. of High Pressure Physics) / Takashi Matsuoka (Tohoku Univ.)

#### T02 Group IV Semiconductors

Christian Reimann (Fraunhofer IISB) / Noritaka Usami (Nagoya Univ.)

#### T03 2D Materials

Thomas Seyller (Tech. Univ. Chemnitz) / Satoru Tanaka (Kyushu Univ.)

#### T04 II-VI and Oxide Materials

Igor Avetisov (D. Mendeleev Univ. of Chemical Technology of Russia) / Hitoshi Tabata (The Univ. of Tokyo)

#### T05 Materials for Spintronics

Shigehiko Hasegawa (Osaka Univ.) / Jens Herfort (Paul-Drude-Institut für Festkörperelektronik) / Shinobu Ohya (The Univ. of Tokyo)

#### T06 Materials for Optical Devices

Gérard Aka (Chimie ParisTech Institute) / Masashi Yoshimura (Osaka Univ.)

#### T07 Materials for Electron Devices

Atsushi Tsukazaki (Tohoku Univ.) / Markus Weyers (Ferdinand-Braun-Institut) / Andrea Zappettini (IMEM-CNR)

#### T08 Materials for Organic Devices and Bio Applications

Christian Leo Kloc (Nanyang Tech. Univ.) / Yuji Yoshida (AIST)

#### T09 Nitride Semiconductors

Izabella Grzegory (Inst. of High Pressure Physics) / Yasushi Nanishi (Ritsumeikan Univ.)

#### T10 Silicon Carbide

Peder Bergman (Linköping Univ.) / Toru Ujihara (Nagoya Univ.)

### ■ Joint Session

#### J01 Growth Simulation and Practice

Tomonori Ito (Mie Univ.) / Jochen Friedrich (Fraunhofer IISB)

# Committees

## Organizing Committee

**Co-Chairs** **Koichi Kakimoto** (Kyushu University)  
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**Vice Chair /  
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**V. Fratello** (USA) **J. Friedlich** (Germany)  
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**Y. Mori** (Japan) **S. Nishizawa** (Japan)  
**T. Ohachi** (Japan) **M. Pons** (France)  
**D. Powlak** (Poland) **F. Puel** (France)  
**V. Rakovics** (Hungary) **K. Roberts** (GB)  
**M.L. Roth** (Israel) **C. Frank-Rotsch** (Germany)  
**M. Rubbo** (Italy) **P. Rudolph** (Germany)  
**G. Sasaki** (Japan) **J. Speck** (USA)  
**G. B. Stringfellow** (USA) **K. Tsukamoto** (Japan)  
**S. Uda** (Japan) **M. Uwaha** (Japan)  
**S. Veessler** (France) **D. Vizman** (Romania)  
**E. Vlieg** (Netherlands) **J. Wang** (China)  
**C. W. Lan** (Taiwan) **R. Yakimova** (Sweden)  
**J. De Yoreo** (USA) **A. Zappettini** (Italy)

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**H. Miyake** (Mie Univ.)  
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**J. Suda** (Kyoto Univ.) **N. Usami** (Nagoya Univ.)  
**E. Yokoyama** (Gakushuin Univ.)  
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**Exhibition** **Chair**  
**Y. Hayakawa** (Shizuoka Univ.)  
**Vice Chairs** **W. Sakamoto** (Nagoya Univ.) **T. Araki** (Ritsumeikan Univ.)  
**Member** **H. Murakami** (Tokyo Univ. A&T)

## Abstract Submission

Abstract Deadline **March 18<sup>th</sup>, 2016**

Abstract submission of contributed papers is possible only through the conference website. Please refer to the detailed information on the abstract format on the website.

<http://www.iccge18.jp/abstracts.html>

## Late News Papers

A limited number of papers describing the most up-to-date results will be accepted as Late News Papers. Abstracts for these papers should be prepared using the same guidelines as those for regular papers.

## Proceedings

The conference proceedings will be published as a special issue of the Journal of Crystal Growth (JCG). The authors of successfully accepted abstracts are requested to submit the manuscripts to the proceedings.

## IOCG Prizes

The Frank Prize is awarded for significant fundamental contributions to the field of crystal growth. The Laudise prize is presented for significant technological contributions to the field of crystal growth. The Schieber prize is awarded to a young author to recognize his or her outstanding scientific publications in the field of crystal growth.

<http://www.iocg.org/prizes/index.html>

## Social Activities

■ **Welcome Reception (Sunday evening, August 7)**

■ **Excursion (Wednesday, August 10)**

- Ise Jingu (Ise Grand Shrine)
- Toyota Automobile Museum
- Atsuta Shrine & Nagoya Asahi Brewery Tour
- Port of Nagoya Public Aquarium & SCMAGLEV and Railway Park

■ **Banquet (Thursday evening, August 11)**

Venue: Nagoya Marriott Associa Hote

## Registration

All attendees and presenters of contributed papers are subject to the relevant registration fees.

Category	Until May 31, 2016	From June 1, 2016
Regular	JPY 80,000	JPY 90,000
Student	JPY 40,000	JPY 50,000
Accompany	JPY 10,000	JPY 10,000
Excursion on Aug. 10	JPY 5,000	
Banquet on Aug. 11	JPY 8,000	

### Conference registration fees include

<b>Regular Participants</b>	- Attendance of all the technical sessions. - Conference documents and proceedings. - Invitation to the Welcome Reception. - Lunches and coffee breaks.
<b>Students</b>	- As for Regular Participants, except for Proceedings.
<b>Accompanying Persons</b>	- Invitation to the Welcome Reception. - Lunches and coffee breaks.

### Payment

- Payment should be made by no later than July 25, 2016.
- No reservation will be confirmed in the absence of payment.
  - All payment must be in Japanese yen.
  - Please pay by credit card if you live overseas.

#### Payment Methods

##### (1) Credit Card Online

VISA, MasterCard, American Express, Diners Club or JCB only.

##### (2) Bank Transfer

Please contact the person in charge.

- JTB Western Japan, Corp. Corporate Sales Central Office
- Email: [j\\_hasegawa109@west.jtb.jp](mailto:j_hasegawa109@west.jtb.jp)

### Cancellation

- In the case of cancellation, it should be notified to JTB by email.
- Email: [j\\_hasegawa109@west.jtb.jp](mailto:j_hasegawa109@west.jtb.jp)

#### We will charge the following cancellation fee

<b>Before May 31, 2016</b>	JPY 5,000
<b>On or after June 1, 2016</b>	100% of the registration fee / No Refund

Further details will be provided on the conference website.

<http://www.iccge18.jp/registration.html>

## Accommodation

**Nagoya Marriott Associa Hotel** provides comfortable accommodation at reasonable rates. The following hotels in downtown Nagoya are also available.

- ANA Crowne Plaza Hotel Grand Court Nagoya
- Nagoya Kanayama Hotel
- Cypress Garden Hotel

Further details will be provided on the conference website.

<http://www.iccge18.jp/accommodation.html>

# Official Registration Desk & Travel Agent

JTB Western Japan Corp. has been appointed to staff the official registration desk during the conference and will handle registration and hotel accommodation.

## JTB Western Japan Corp. Corporate Sales Central Office (Convention, Meeting and Event Team)

- Address: 11F Hommachi cross bldg.,  
3-1-8, Minami Kyuhoji-cho, Chuo-ku, Osaka, Japan, 541-0058
- Phone: +81-6-6252-2830 (Weekday 9:30-17:30)
- Fax: +81-6-6252-2695
- Email: [j\\_hasegawa109@west.jtb.jp](mailto:j_hasegawa109@west.jtb.jp)

## Passport & Visa

All foreign visitors entering Japan must possess a valid passport. Participants from countries requiring a visa to enter Japan should obtain one from the nearest Japanese embassy or consulate in good time. If documents to be issued by the conference committee are necessary for the visa application (invitation letter, etc.), please contact the ICCGE-18 secretary or ISSCG-16 secretary.

**ICCGE-18** **Yusuke Mori** ■ Email: [secretariat@iccge18.jp](mailto:secretariat@iccge18.jp)  
■ <http://www.iccge18.jp/>

**ISSCG-16** **Gen Sasaki** ■ Email: [isscg16@iccge18.jp](mailto:isscg16@iccge18.jp)  
■ <http://www.iccge18.jp/isscg16/>

## Welcome to Nagoya

Toyota Automobile Museum



Noritake Museum



Nagoya Castle

Nagoya TV Tower and Oasis 21



## Locations

**ICCGE-18**  
in Nagoya  
Nagoya Congress Center

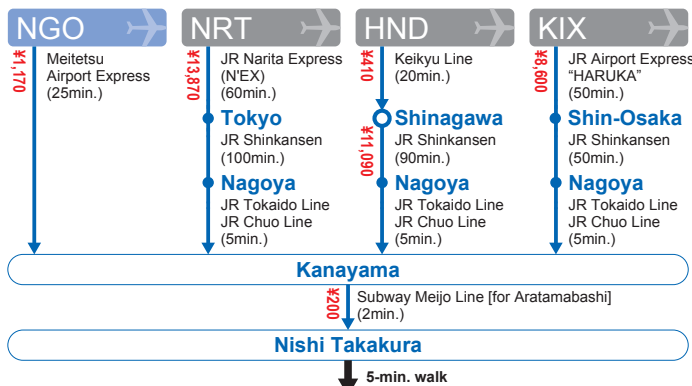
Kansai  
International Airport  
KIX

Tokyo  
International Airport  
HND

Narita  
International Airport  
NRT

Chubu Centrai  
International Airport,  
Nagoya  
NGO

**ISSCG-16**  
in Lake Biwa, Shiga  
Doshisha Biwako Retreat Center



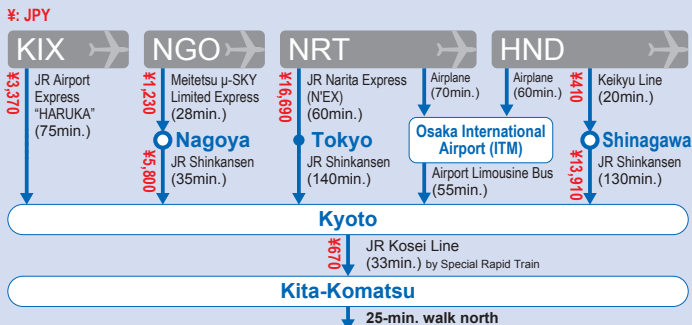
## ICCGE-18 Nagoya Congress Center



1-1 Atsuta-nishimachi, Atsuta-ku, Nagoya 456-0036

The venue of ICCGE-18 is Nagoya Congress Center, located in the center of the city and easily reached by subway from many hotels.

<http://www.iccge18.jp/venue.html>



## ISSCG-16 Doshisha Biwako Retreat Center



179 Kitakomatsu, Otsu-shi, Shiga

The venue of ISSCG-16 is Doshisha Biwako Retreat Center  
<http://www.iccge18.jp/isscg16/venue.html>



## Scope of ISSCG-16

Researchers playing active roles in extending the frontiers of a wide range of fields in crystal growth will give lectures on a wide array of topics ranging from instructive topics to the latest topics. Students will therefore have an opportunity to systematically learn about crystal growth from its fundamentals to its applications. All the lecturers and students will stay in the same accommodation for six days. The friendly and homely atmosphere will be a valuable opportunity for both lecturers and students to share information and learn from each other.

## Features

In addition to stimulating lectures, we are also planning to hold five courses to promote enthusiastic discussion, including experiments and simulations. Lecturers will also participate in the discussion. Through such discussion, students will obtain a deeper understanding of crystal growth. We also plan to hold poster presentations in which students can have in-depth discussions with lecturers and other participants.

## Memories of ISSCG-11

ISSCG-11(2001) was held at the same venue of Doshisha Biwako Retreat Center. The school facility has not changed much except for the planting of a camphor tree, by the participants during the School to commemorate the event.



The camphor tree in September 2015



The plate of ISSCG-11, 24-29 July 2001 and Robert Sekerka (7th President of IOCG), Tatau Nishinaga (6th), Raymond Kern (4th), and Alexander Chernov (8th) from left to right in front of the planted camphor tree.

## Registration

Start of registration

January 12<sup>th</sup>, 2016

End of early registration

May 31<sup>th</sup>, 2016

The number of School attendees is limited to 120. Participants are encouraged to register as soon as possible in order to guarantee participation. Registration will be accepted on a first-come-first-served basis. Payment is allowed only by credit card using a web payment system.

### Registration fees

Category	Until May 31, 2016	From June 1, 2016
Regular	JPY 80,000	JPY 90,000
Student	JPY 60,000	JPY 70,000
Accompanying person	JPY 60,000	JPY 70,000

### Registration fees include

Regular and student participants	<ul style="list-style-type: none"> <li>- attendance of all lectures</li> <li>- accommodation (six nights)</li> <li>- all meals and banquet</li> <li>- excursion</li> <li>- School textbook</li> </ul>
Accompanying persons	<ul style="list-style-type: none"> <li>- accommodation (six nights)</li> <li>- all meals and banquet</li> <li>- excursion</li> </ul>

## Accommodation

In Doshisha Biwako Retreat Center, the number of western-style single rooms is limited. Hence, five to six attendees (other than lecturers) will share one Japanese-style room. An attendee will use a set of futons (Japanese mattresses and quilts) spread on tatami mats. Such Japanese-style accommodation is beneficial for forming close relationships among attendees.

In this facility, attendees use a shared Japanese-style bathroom. Attendees also need to provide their own nightwear and toiletries.

If an attendee has accompanying persons, please contact the organizing committee\* as soon as possible since the number of family-use rooms is also very limited.

\*Organizing Committee

[isscg16@iccge18.jp](mailto:isscg16@iccge18.jp)

School website

<http://www.iccge18.jp/isscg16/>

# Lecturers and Titles of Lectures [Tentative]

## 1.5 Hour Lectures

**Tatau Nishinaga** (University of Tokyo, Japan)  
2004 IOCG Laudise Prize-winner

“Thermodynamics”

**Makio Uwaha** (Aichi Institute of Technology, Japan)

“BCF theory”

**Jim De Yoreo** (PNNL, USA)

2010 IOCG Laudise Prize-winner

“In-situ observation of nucleation and growth processes by TEM observation”

**Peter Rudolph** (CTC, Germany)

“Fundamentals and engineering of defects”

**Hiroshi Amano** (Nagoya University, Japan)

2014 Nobel Prize laureate

“LED GaN growth”

**Sumio Iijima** (Meijo University, Japan)

“Carbon nanotube”

**Katsuo Tsukamoto** (Osaka University / Tohoku University, Japan)

2013 IOCG Frank Prize-winner

“In-situ observation and growth mechanisms”



## Experimental Practice and Discussion

International Presummer School on Crystal Growth  
held at DBRC in 2015



## 1.0 Hour Lectures (fundamental)

**Peter G. Vekilov** (University of Houston, USA)

“Nucleation of protein crystals”

**Elias Vlieg** (University of Nijmegen, The Netherlands)

“Characterization of surfaces and interfaces”

**Olivier Pierre-Louis** (ILM, France)

“Solid-state wetting and de-wetting”

**Hiroki Hibino** (Kwansei Gakuin University, Japan)

“In-situ observation of step dynamics and graphene”

**Juan M. Garcia-Ruiz** (University of Granada, Spain)

“Mineral crystallization”

**Hiroaki Imai** (Keio University, Japan)

“Growth of meso-crystals”

**Mu Wang** (Nanjing University, China)

“Complex (periodic) pattern formation & its function”

## 1.0 Hour Lectures (application)

**Koichi Kakimoto** (Kyushu University, Japan)

“Si bulk crystals”

**Jeffrey J. Derby** (University of Minnesota, USA)

“Fluid dynamics simulation”

**Thomas Kuech** (University of Wisconsin, USA)

“III-V semiconductor crystals”

**Tsunenobu Kimoto** (Kyoto University, Japan)

“Silicon carbide crystals”

**Shigeya Naritsuka** (Meijo University, Japan)

“Lateral growth”

**Christopher Palmstrom** (University of California, USA)

“Heusler materials and spintronics”

**Makoto Kasu** (Saga University, Japan)

“Diamond epitaxy”

# Practice Courses of Experiments and Simulations

## 1. In-situ real time observation of colloidal crystallization

**Junpei Yamanaka** (Nagoya City University, Japan)

**Tsutomu Sawada** (National Institute for Materials Science, Japan)

**Yoshihisa Suzuki** (Tokushima University, Japan)

**Jun Nozawa** (Tohoku University, Japan)

## 2. Observing crystal growth processes in computer simulations

**Hiroki Nada** (AIST, Japan)

**Hitoshi Miura** (Nagoya City University, Japan)

**Jun Kawano** (Hokkaido University, Japan)

## 3. Assembling interferometers and in-situ observation of ambient phases and solid-liquid interfaces

**Yuki Kimura** (Hokkaido University, Japan) **2013 IOCG Schieber Prize-winner**

**Kenta Murayama** (Nagoya University, Japan)

**Tomoya Yamazaki** (Hokkaido University, Japan)

## 4. In-situ observation of crystal surfaces by optical microscopy

**Gen Sasaki** (Hokkaido University, Japan)

**Ken Nagashima** (Hokkaido University, Japan)

**Ken-ichiro Murata** (Hokkaido University, Japan)

## 5. Polymorphism of edible fat crystals

**Hironari Hondoh** (Hiroshima University, Japan)

**Satoru Ueno** (Hiroshima University, Japan)

# Poster Presentations

Students are encouraged to give poster presentations, during which they can have in-depth discussions with lecturers and other attendees.

The deadline for the registration of poster presentations is

**May 31, 2016.**

## Important Dates

### ■ January 12, 2016

Start of registration

### ■ May 31, 2016

End of early registration and

end of registration of poster presentations

# Committees

## Organizing Committee

### Chair

**Gen Sasaki** (Hokkaido University)

### Vice Chairs

**Hiroki Nada** (AIST)

**Shigeya Naritsuka** (Meijo University)

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## Publication

**Hiroki Nada** (AIST)

## Local Arrangement

**Naoki Ohtani** (Doshisha University)

**Shinzo Yoshikado** (Doshisha University)

**Toshitaka Nakada** (Ritsumeikan University)

## Advisors

**Tadashi Ohachi** (Doshisha University)

**Koichi Kakimoto** (Kyushu University)

# ISSCG-16 Program (Schedule) [Tentative]

## August, 2016 (Doshisha Biwako Retreat Center (DBRC))

	1 (Mon)	2 (Tue)	3 (Wed)	4 (Thr)	5 (Fri)	6 (Sat)	7 (Sun)
9:00-10:30		L-4	L-10	L-16	L-18	L-20	Leaving (Registration of ICCGE-18 opens from 15:00 on 7th)
10:45-11:45		L-5	L-11	L-17	L-19	L-21	
12:00-13:00		Lunch	Lunch	Lunch	Lunch	Lunch	
13:15-14:15	Registration	L-6	L-12	Excursion	Experimental Session	L-22	
14:30-15:30	L-1	L-7	L-13			L-23	
15:45-16:45	L-2	L-8	L-14			L-24	
17:00-18:00	L-3	L-9	L-15			L-25	
18:00-20:00	Reception	Dinner	Dinner		Dinner	Banquet	
20:00-21:00		Poster 1	Poster 2		Poster 3		



# ICCGE-18 Program at a Glance [Tentative]

August, 2016 (Nagoya)

	7 (Sun)	8 (Mon)	9 (Tue)	10 (Wed)	11 (Thu)	12 (Fri)	
8:00		Registration	Registration	Registration	Registration	Registration	
9:00		Opening	Plenary 2, 3	Plenary 4, 5	Award 1, 2, 3	FR 1 8 parallel	
10:00		Plenary 1					Coffee Break
11:00		Mo 1 6 parallel + 2 joint session	Tu 1 6 parallel + 2 joint session	We 1 8 parallel	Th 1 6 parallel + 2 joint session	Plenary 6, 7	
12:00				Excursion			Closing
13:00		JCG Lunch Editor Meeting	IOCG Lunch Exec. Meeting		IOCG Lunch Council Meeting		
14:00	JACG Meeting					IOCG Assembly	
15:00		Mo 2 8 parallel	Tu 2 8 parallel			Coffee Break	
16:00	Registration	Coffee Break	Coffee Break			Poster 3	
17:00		Mo 3 8 parallel	Tu 3 8 parallel				
18:00	Welcome Reception						
19:00		Poster 1	Poster 2			Banquet	
20:00							

## Exhibition & Sponsorship

### ICCGE-18 Exhibition & Advertising Contact (for application)

Exhibition & Advertising Secretariat

- Email: [iccge18@ktis.jp](mailto:iccge18@ktis.jp)
- Phone: +81-6-4708-7114
- Fax: +81-6-4708-7324

\*Please visit ICCGE official web site for further details.

[http://www.iccge18.jp/exhibitions\\_en.html](http://www.iccge18.jp/exhibitions_en.html)

### ICCGE-18 Sponsorship Contact

ICCGE-18 Secretariat

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## Further Information

Please visit the website for details on registration, exhibitions and other information.

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