



Scope

Since its first three conferences held in Sendai, Japan, Seoul, Korea, and Beijing, China, respectively in 2000, 2002 and 2005, the Asian Conference on Crystal Growth and Technology (CGCT) has become a successful series conference on crystal growth and technology in Asian. The 7th Asian Conference on Crystal Growth and Crystal Technology (CGCT-7) will be held in the “Spring City of Northland” Changchun, China during October 15-18, 2017. CGCT-7 will provide a forum for presentation and discussion of recent developments and achievements in all aspects of basic and applied research pertinent to crystal growth and crystal technology.

The conference will cover a broad aspect of topics ranging from crystal growth science to technology. It will include both oral presentation and poster sessions, as well as plenary talks for sharing broad visions on future technology developments. Ultimately, CGCT-7 provides a platform to promote communication and collaboration among young researchers, engineers and students within the Asian regions, and beyond. The conference is open to everyone who loves crystal growth and crystal technology. The official language will be English.

Plenary Talk

- | | | |
|----|-----------------------|---|
| 1. | Prof. Guangtian Zou | State Key Laboratory of Superhard Materials, Jilin University, China |
| 2. | Prof. T. Fukuda | Tohoku University, Japan |
| 3. | Prof. Koichi Kakimoto | Research Institute for Applied Mechanic, Kyushu University, Japan |
| 4. | Dr. Valentin Petrov | Max-Born-Institute for Nonlinear Optics and Ultrafast Spectroscopy, Germany |

More plenary speakers will be updated soon...

Conference Topics

1. *Fundamental and Simulation of Crystal Growth*

- Theory of nucleation and growth
- In-situ observation on surface and interfacial process
- Formation and characterization of defect
- Simulation of crystal growth
- Morphology of crystals

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2. Nonlinear Optical and Laser Crystal Materials and Elements

- Crystal growth of nonlinear optical and laser crystals
- Physical properties of nonlinear optical and laser crystals
- Development of new nonlinear optical crystals
- Structure-properties relationship of nonlinear optical crystals
- Microscopic mechanism of crystallization process
- Device fabrication and application of laser crystal

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Hiroaki Minamide minamide@riken.jp
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3. Scintillation, piezoelectric and other functional crystal materials

- Scintillation crystal materials
- Ferroelectric, piezoelectric and pyroelectric crystal materials
- Magneto-optic, acousto-optic and electro-optic crystal materials
- Insulating and superconducting materials
- Photonic, phononic crystal and metamaterials
- Other new functional crystal materials

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Wollongong University, Australia

4. Low Dimensional Materials

- Nanodots, nanowires and nanotubes
- Crystal fiber materials
- Synthesis, morphology control, structure and growth mechanism of nanocrystals
- Function and application of nanocrystalline materials
- Film materials and technology

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5. Biological and flexible materials

- Organic crystal growth
- Single crystals of organic semiconductors
- Crystal engineering of multicomponent molecular crystals
- Physical properties resulting from pi electron interactions in single crystals
- Biomolecule crystallization
- Biomineralization
- Organic and biological materials
- Crystallization controlled by biomolecules
- Bio inspired crystallisation
- Mesoscopic materials related crystallization

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Yuui Yokota yokota@imr.tohoku.ac.jp
Tohoku University, Japan

6. Super Hard Materials

- Synthesis of diamond
- Science and devices of diamond and their applications
- Diamond like carbon
- B-C-N compound
- Nitride/Boride/Carbide Superhard Materials
- High pressure materials

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Bo Zou zoubu@jlu.edu.cn
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7. Wide band-gap semiconductor and substrate materials

- Growth mechanism and preparation techniques of semiconductor materials
- SiC, ZnO, Ga₂O₃ and other wide band-gap semiconductor materials
- Effects of impurities and defects in semiconductor materials on device performance
- Fabrication of bulk substrates and semiconductor films
- Other semiconductor materials

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Jun Xu xujun@mail.shcnc.ac.cn
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8. Crystal growth technology, equipment and characterization

- Novel crystal growth technologies
- Crystal growth equipments
- Characterization (X-ray, neutron, defects)

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Organizations

Sponsors

- The Chinese Ceramic Society, (CCS)
- Crystal growth and materials branch, CCS (CACG)
- Asian Society of Crystal Growth and Crystal Technology

Organizers

- Changchun University of Science and Technology
- Jilin University

Co-Organizers

- Japan Society for the Promotion of Science (JSPS) 161 committee
- Technical Institute of Physics and Chemistry, Chinese Academy of Sciences
- State Key Laboratory of Crystal Materials of Shandong University
- Tsinghua University

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Abstract submission

Each author is required to submit one A4 page abstract including motivation, scope and main results and conclusion. The text papers (.pdf, .doc) will be accepted by Electronic Submission System (<http://www.cgct-7.cn/>).

The deadline for oral presentation abstracts shall be submitted no later than ~~June 1~~ **July 1, 2017**, and for poster abstract no later than **July 15, 2017**. All submissions will be subjected to review.

Publications

Manuscripts of full paper shall follow the format provided in the Conference web-site. Subject to both peer review and editing, recommended manuscripts will be published either in a regular issue of **Journal of Crystal Growth** or **Journal of Chinese Ceramic Society**. Manuscripts submitted after the deadline will not be published.

Exhibition

The commercial exhibition blocks will be provided during the conference. The desk and board for the exhibition are available. Each unit costs \$2000 for a regular sized block, which covers one person as a full registered member of the conference.

Schedule for the Conference

Date	Time	Active
October 15	Whole day	Registration
	Evening	Welcome Reception
October 16	Morning	Opening Ceremony
	Afternoon	Sub-sessions Exhibition
	Evening	Poster Session
October 17	Morning	Sub-sessions Exhibition
	Afternoon	Sub-sessions Exhibition
	Evening	Banquet (Closing Ceremony)
October 18	Morning	Social culture activities

Important Date

Abstract deadline	June 1 July 1, 2017
Poster abstract deadline	July 15, 2017
Full paper deadline	August 15, 2017
Pre-registration deadline	August 15, 2017
Conference date	October 15-18, 2017

Registration

Registration Category	Before August 15, 2017	Onsite Registration
Regular	\$ 480	\$ 580
Student	\$ 280	\$ 380
Accompany	\$ 150	\$ 150

Types of Payment:

Payment in CNY (China Yuan ¥) or its current equivalent USD (\$) from outside the Mainland China

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✘ Please kindly inform us by email cgct_7@cust.edu.cn after the payment.

Request for cancellation of the registration shall be made by sending e-mail to the CGCT-7 Organizing Committee Secretary General. The e-mail address is cgct_7@cust.edu.cn. Telephone requests will not be honored.

Full Refund – More than 45 Days Notice

To receive a full refund, a written request for cancellations shall be received by CGCT-7 no later than 45 days prior to the first day of the conference.

50% Refund – Between 30 ~ 45 Days Notice

A written request for cancellations received by CGCT-7 between 30 ~ 45 Days of the start of the conference will be subject to a 50% refund.

No Refund – Within 30 Days Notice

Request for cancellations received within 30 days of the start of the conference will not be eligible for refund.

Venue

Changchun International Conference and Exhibition Center

Address: 100 Huizhan Street, Economic Development Zone, Changchun, China

Visa Application

There are different requirements to obtain a visa to enter the mainland China from different countries. Some embassies may request a conference attendee to present a letter from the organization committee to verify the intention.

The CGCT-7 Organization Committee will provide the attendees with the requested invitation letter for visa application. Please mail to cgct_7@cust.edu.cn

Chinese Embassies:

<http://www.fmprc.gov.cn/eng/wjb/zwjg/2490/>

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