

Dreams and Hopes for Late Starters



# SEOUL ICM 2014

INTERNATIONAL CONGRESS OF MATHEMATICIANS

August 13-21, 2014 / Coex, Seoul, Korea

1<sup>st</sup> Announcement



[www.icm2014.org](http://www.icm2014.org)



# SEOUL ICM 2014

## INTERNATIONAL CONGRESS OF MATHEMATICIANS

### Important Dates

Abstract Submission Due for Short Communications & Posters	Mar. 14, 2014
Paper Submission Due for Plenary and Invited Lectures	Apr. 13, 2014
Abstract Acceptance Notifications	Apr. 10, 2014
Early Advanced Registration Due	May 10, 2014
On-line Hotel Reservation Due	Jul. 10, 2014
IMU General Assembly 2014	Aug. 10-11, 2014
MENAO (Mathematics in Emerging Nations: Achievements and Opportunities)	Aug. 12, 2014
SEOUL ICM 2014	Aug. 13-21, 2014



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# Welcome Message

On behalf of the International Mathematical Union (IMU), the Seoul ICM 2014 Organizing Committee is pleased to the Seoul ICM 2014, which will be convened in from August 13 to 21, 2014 in Seoul, Korea. The ICM, as the largest international congress in the mathematics community, is held once in every four years.

As with previous ICM congresses since 1897, the SEOUL ICM 2014 will be a major scientific event that brings the mathematicians from all over the globe together, and demonstrates the vital role of mathematics in a science and a society. This announcement contains useful information about the Congress, including information about the venue, accommodations, and family-friendly cultural programs. We strongly recommend that you visit the SEOUL ICM 2014 website regularly for any updated information on the scientific program, conferences and other matters related to the Congress. Please share this announcement with your colleagues who might be interested in SEOUL ICM 2014.

## SEOUL ICM 2014 LOGO



The Logo for SEOUL ICM 2014 comprises two golden spirals that grow and expand at the rate of golden ratio. It represents growth in mathematical order, and symbolizes the dreams and hopes of the late starters.

The S-shaped logo is reminiscent of the S in Seoul, and also the "Tae-Geuk" image in the Korean flag that symbolizes the harmony of Yin and Yang.

The red color is Yang, representing love and passion. The blue color is Yin, symbolizing intelligence and dream. The Yin & Yang, however, begin with the same color and shape, representing the oneness of the universe.

**SEOUL ICM 2014**  
INTERNATIONAL  
CONGRESS OF  
MATHEMATICIANS

# Program at a Glance

	12-Aug (Tue)	13-Aug (Wed)	14-Aug (Thu)	15-Aug (Fri)	16-Aug (Sat)	17-Aug (Sun)	18-Aug (Mon)	19-Aug (Tue)	20-Aug (Wed)	21-Aug (Thu)	
08:00	ICWM (Ewha W. Univ.) MENAO Registration					Excursion					
09:00		Opening Ceremony	Ian Agol	James Arthur	Maryam Mirzakhani		Alexei Borodin	Mikhail Lyubich	Alan Frieze	Jonathan Pila	
10:00			Jun-Muk Hwang	Demetrios Christodoulou	Franco Brezzi		Jean-François Le Gall	Ben Green	Takuro Mochizuki	Vojtech Rödl	
11:00			Emmanuel Candes	János Kollár	Manjul Bhargava		Fernando Codá Marques	Benoit Perthame	Frank Merle	Vera Serganova	
12:00		Lunch	Lunch	Lunch	Lunch		Lunch	Lunch	Lunch	Lunch	
13:00		Laudations for Fields 1 Laudations for Fields 2	Fields Medalist 1	Fields Medalist 2	Gauss Prize Lecture		Chern Prize Lecture	Fields Medalist 3	Fields Medalist 4	Invited Lecture (Yitang Zhang)	
14:00		Laudations for Fields 3 Laudations for Fields 4 Laudations for Nevanlinna	Invited Talks Contributed Talks	ICWM (Coex)	Invited Talks Contributed Talks		Invited Talks Contributed Talks	Invited Talks Contributed Talks	Invited Talks Contributed Talks	Invited Talks Contributed Talks	Closing Ceremony
15:00		Nevanlinna Prize Lecture									
16:00			Emmy Noether Lecture (Georgia Benkart)	Abel Lecture (John Milnor)	Casual Performances						
17:00											
18:00											
19:00	Conference Dinner										
20:00	Welcome Reception	Public Lecture 1 (James Simons)							Public Lecture 2		
Thematic Days							Math Education Day	Math History Day	Math Popularization Day		

# Scientific Programs

## SCIENTIFIC SECTIONS

As in previous years at the ICM, SEOUL ICM 2014 will offer a wide-ranging, attractive scientific program consisting of plenary and invited lectures, short communications, and poster sessions. The following subject areas have been chosen for SEOUL ICM 2014 (section descriptions as well as the number of plenary and invited lectures to be given in each section):

- |   |  |
|---|--|
| <b>1. Logic and Foundations</b>                                 | <b>11. Mathematical Physics</b>                                    |
| <b>2. Algebra</b>   | <b>12. Probability and Statistics</b>                              |
| <b>3. Number Theory</b>   | <b>13. Combinatorics</b>   |
| <b>4. Algebraic and Complex Geometry</b>                        | <b>14. Mathematical Aspects of Computer Science</b>                |
| <b>5. Geometry</b>  | <b>15. Numerical Analysis and Scientific Computing</b>             |
| <b>6. Topology</b>  | <b>16. Control Theory and Optimization</b>                         |
| <b>7. Lie Theory and Generalizations</b>                        | <b>17. Mathematics in Science and Technology</b>                   |
| <b>8. Analysis and its Applications</b>                         | <b>18. Mathematics Education and Popularization of Mathematics</b> |
| <b>9. Dynamical Systems and Ordinary Differential Equations</b> | <b>19. History of Mathematics</b>                                  |
| <b>10. Partial Differential Equations</b>                       |  |

### CALL FOR ABSTRACTS

The SEOUL ICM 2014 Organizing Committee welcomes the online submission for Short Communications (Oral) or Poster Presentation. Abstracts received by **March 14, 2014** via **Online Abstract Submission** at the official website ([www.icm2014.org](http://www.icm2014.org)) will be considered under the standard review process. Only accepted abstracts can be presented and the presenters must register as conference participants.

Abstracts Submission	<b>January 1 ~ March 14, 2014</b>
Abstract Acceptance Notice	<b>April 10, 2014</b>
Session Schedule Notice	<b>July, 2014</b>

For more information, please visit the SEOUL ICM 2014 official website ([www.icm2014.org](http://www.icm2014.org)) or contact via email at [abstract@icm2014.org](mailto:abstract@icm2014.org).

# Invited Speakers

## PLENARY SPEAKERS

- Ian Agol**, *University of California, Berkeley, USA*
- Jun-Muk Hwang**, *Korea Institute for Advanced Study, Korea*
- Emmanuel Candes**, *Stanford University, USA*
- James Arthur**, *University of Toronto, Canada*
- Demetrios Christodoulou**, *ETH-Zürich, Switzerland*
- János Kollár**, *Princeton University, USA*
- Maryam Mirzakhani**, *Stanford University, USA*
- Franco Brezzi**, *IUSS, Pavia, Italy*
- Manjul Bhargava**, *Princeton University, USA*
- Alexei Borodin**, *Massachusetts Institute of Technology, USA*
- Jean-François Le Gall**, *Université Paris-Sud, France*
- Fernando Codá Marques**, *IMPA, Brazil*
- Mikhail Lyubich**, *SUNY Stony Brook, USA*
- Ben Green**, *University of Oxford, UK*
- Frank Merle**, *Université de Cergy-Pontoise/IHES, France*
- Alan Frieze**, *Carnegie Mellon University, USA*
- Takuro Mochizuki**, *Kyoto University, Japan*
- Benoit Perthame**, *Université Pierre et Marie Curie, France*
- Jonathan Pila**, *University of Oxford, UK*
- Vojtech Rödl**, *Emory University, USA*
- Vera Serganova**, *University of California, Berkeley, USA*

## SECTIONAL INVITED SPEAKERS

### 1. Logic and Foundations

- François Loeser**, *Université Pierre et Marie Curie-Paris 6, France*
- Ilijas Farah**, *York University, Canada*
- Zoé Chatzidakis**, *Université Paris Diderot-Paris 7, France*
- Byunghan Kim**, *Yonsei University, Korea*
- Antonio Montalbán**, *University of California, Berkeley, USA*
- Slawomir Solecki**, *University of Illinois at Urbana-Champaign, USA*

### 2. Algebra

- Seok-Jin Kang**, *Seoul National University, Korea*
- Guillermo Cortinas**, *Universidad de Buenos Aires, Argentina*
- Robert Guralnick**, *University of Southern California, USA*
- Nicolás Andruskiewitsch**, *Universidad Nacional de Córdoba, Argentina*
- Martin Kassabov**, *Cornell University, USA*
- Olga Kharlampovich**, *City University of New York, USA*
- Alexei Miasnikov**, *Stevens Institute of Technology, USA*
- Andrei S. Rapinchuk**, *University of Virginia, USA*
- Karen Smith**, *University of Michigan, USA*

### 3. Number Theory

- Francis Brown**, *IHES, France*
- Matthew Emerton**, *University of Chicago, USA*

**Harald Helfgott**, *École Normale Supérieure-Paris, France*

**Dan Goldston**, *San Jose State University, USA*

**János Pintz**, *Alfréd Rényi Institute of Mathematics, Hungary*

**Cem Yıldırım**, *Boğaziçi University, Turkey*

**Michael Harris**, *Institut de Mathématiques de Jussieu, France*

**Wee Teck Gan**, *National University of Singapore, Singapore*

**Trevor Wooley**, *Bristol University, UK*

**Peter Scholze**, *Universität-Bonn, Germany*

**Zeev Rudnick**, *Tel-Aviv University, Israel*

**Jean-Loup Waldspurger**, *Institut de Mathématiques de Jussieu, France*

**Umberto Zannier**, *Scuola Normale Superiore di Pisa, Italy*

**Yitang Zhang**, *University of New Hampshire, USA*

**Tamar Ziegler**, *Hebrew University and Technion, Israel*

#### 4. Algebraic and Complex Geometry

**Kai Behrend**, *University of British Columbia, Canada*

**Mark Gross**, *University of California at San Diego, USA*

**Bernd Siebert**, *Universität Hamburg, Germany*

**Bumsig Kim**, *Korea Institute for Advanced Study, Korea*

**Alexander Kuznetsov**, *Steklov Math Institute, Russia*

**Davesh Maulik**, *Columbia University, USA*

**Mircea Mustață**, *University of Michigan, USA*

**Keiji Oguiso**, *Osaka University, Japan*

**Bertrand Toën**, *Université de Montpellier 2., France*

**Yukinobu Toda**, *Kavli-IPMU, Japan*

**Mikhail Verbitsky**, *National Research University HSE, Russia*

#### 5. Geometry

**Fuquan Fang**, *Capital Normal University, China*

**Mikhail Belolipetsky**, *Instituto Nacional de Matemática Pura e Aplicada, Brazil*

**Olivier Biquard**, *École Normale Supérieure Paris, France*

**Mohammed Abouzaid**, *Columbia University, USA*

**Nancy Hingston**, *College of New Jersey, USA*

**Aaron Naber**, *MIT, USA*

**Jeremy Kahn**, *Brown University, USA*

**Vladimir Markovic**, *California Institute of Technology, USA*

**Yaron Ostrover**, *Tel Aviv University, Israel*

**André Neves**, *Imperial College London, UK*

**Hans Ringström**, *Royal Institute of Technology-Stockholm, Sweden*

**Natasa Sesum**, *Rutgers University, USA*

**Gábor Székelyhidi**, *University of Notre Dame, USA*

**Peter Topping**, *University of Warwick, UK*

**Stefan Wenger**, *University of Fribourg, Switzerland*

**Daniel Wise**, *McGill University, Canada*

#### 6. Topology

**Joseph Ayoub**, *University of Zürich, Switzerland*

**Michael Entov**, *Technion-Israel Institute of Technology, Israel*

**Benson Farb**, *University of Chicago, USA*

**Soren Galatius**, *Stanford University, USA*

**Michael Hill**, *University of Virginia, USA*

**Tao Li**, *Boston College, USA*

**Charles Rezk**, *University of Illinois at Urbana-Champaign, USA*

**John Rognes**, *University of Oslo, Norway*

**Thomas Schick**, *Universität Göttingen, Germany*

**Constantin Teleman**, *University of California Berkeley, USA*

#### 7. Lie Theory and Generalizations

**Konstantin Ardakov**, *Queen Mary University of London, UK*

**Yves Benoist**, *Université Paris-Sud, France*

**Emmanuel Breuillard**, *Université Paris-Sud 11, France*

**Michela Varagnolo**, *University de Cergy-Pontoise, France*

**Eric Vasserot**, *Institut de Mathématiques de Jussieu, France*

**Jonathan Brundan**, *University of Oregon, USA*

**Alexander Furman**, *University of Illinois at Chicago, USA*

**Alexander Kleshchev**, *University of Oregon, USA*

**Victor Ostrik**, *University of Oregon, USA*

**Bertrand Rémy**, *Institut Camille Jordan, France*

**Nicolas Ressayre**, *Institut Camille Jordan, France*

#### 8. Analysis and its Applications

**Laszlo Erdős**, *Mathematisches Institut der LMU, Germany*

**Alessio Figalli**, *University of Texas at Austin, USA*

**Kengo Hirachi**, *University of Tokyo, Japan*

**Tuomas Hytönen**, *University of Helsinki, Finland*

**Nets Katz**, *California Institute of Technology, USA*

**Izabella Laba**, *University of British Columbia, Canada*

**László Székelyhidi**, *Universität Leipzig, Germany*

**Wilhelm Schlag**, *University of Chicago, USA*

**Tom Sanders**, *Oxford University, UK*

**Andrea Malchiodi**, *Scuola Internazionale Superiore di Studi Avanzati, Italy*

**Alexander (Sasha) Sodin**, *Princeton University, USA*

**Jill Pipher**, *Brown University, USA*

**Roland Speicher**, *Universität des Saarlandes, Germany*

**Chang-Shou Lin**, *National Taiwan University, Taiwan*

**Adam Marcus**, *Yale University, USA*

**Daniel A. Spielman**, *Yale University, USA*

**Nikhil Srivastava**, *Microsoft Research India, India*

#### 9. Dynamical Systems and Ordinary Differential Equations

**Viviane Baladi**, *CNRS, DMA-Ecole Normale Supérieure, Paris, France, France*

**Luigi Chierchia**, *Università degli Studi Roma Tre, Italy*

**Gabriella Pinzari**, *Università degli Studi Roma Tre, Italy*

**Masato Tsujii**, *Kyushu University, Japan*

**Sylvain Crovisier**, *University Paris-Sud 11, France*

**Albert Fathi**, *ENS de Lyon, France*

**Jens Marklof**, *University of Bristol, UK*

**Carlos Gustavo Moreira**, *IMPA, Brazil*

**Mark Pollicott**, *University of Warwick, UK*

**Sebastian van Strien**, *Imperial College London, UK*

**Weixiao Shen**, *National University Singapore, Singapore*

#### 10. Partial Differential Equations

**Panagiota Daskalopoulos**, *Columbia University, USA*

**Mihalis Dafermos**, *University of Cambridge, UK*

**Luis Silvestre**, *University of Chicago, USA*

**Robert Jerrard**, *University of Toronto, Canada*

**Ki-Ahm Lee**, *Seoul National University, Korea*

**Robert J. McCann**, *University of Toronto, Canada*

**Laure Saint-Raymond**, *École Normale Supérieure, France*

**Isabelle Gallagher**, *Université Paris-Diderot, France*

**Shih-Hsien Yu**, *National University of Singapore, Singapore*

**Pierre Raphael**, *Université de Nice Sophia Antipolis, France*

**Jeremie Szeftel**, *Université Pierre et Marie Curie, France*

**Andras Vasy**, *Stanford University, USA*

**Juncheng Wei**, *Chinese University of Hong Kong, Hong Kong*

## 11. Mathematical Physics

**Anton Alekseev**, *Université de Genève, Switzerland*

**Ivan Corwin**, *Clay Mathematics Institute, Columbia University and Institute Henri Poincaré, USA*

**Bertrand Duplantier**, *Institut de Physique Théorique, France*

**Samson Shatashvili**, *Trinity College, Ireland*

**Vladimir Fock**, *Université de Strasbourg et CNRS, France*

**Anton Gerasimov**, *Institute of Theoretical and Experimental Physics, Russia*

**Robert Seiringer**, *Institute of Science and Technology Austria, Austria*

**Rinat Kedem**, *University of Illinois at Urbana-Champaign, USA*

**Sandrine Péché**, *Université Paris-Diderot, France*

**Seung-Yeal Ha**, *Seoul National University, Korea*

**Bertrand Eynard**, *Institut de Physique Théorique, France*

**Jörg Teschner**, *Universität Hamburg, Germany*

## 12. Probability and Statistics

**Sourav Chatterjee**, *New York University, USA*

**Geoffrey Grimmett**, *University of Cambridge, UK*

**Takashi Kumagai**, *Kyoto University, Japan*

**Martin Hairer**, *University of Warwick, UK*

**Michel Ledoux**, *Université de Toulouse, France*

**Russell Lyons**, *Indiana University, USA*

**Terry Lyons**, *University of Oxford, UK*

**Timo Seppäläinen**, *University of Wisconsin, USA*

**Kenneth Lange**, *University of California at Los Angeles, USA*

**Alexandre Tsybakov**, *Université Paris 6 Pierre et Marie Curie, France*

**Vladas Sidoravicius**, *Instituto Nacional de Matemática Pura e Aplicada, Brazil*

**Bálint Virág**, *University of Toronto, Canada*

**Martin Wainwright**, *University of California Berkeley, USA*

## 13. Combinatorics

**David Conlon**, *University of Oxford, UK*

**Maria Chudnovsky**, *Columbia University, USA*

**Michael Krivelevich**, *Tel Aviv University, Israel*

**Daniela Kühn**, *University of Birmingham, UK*

**Deryk Osthus**, *University of Birmingham, UK*

**Marc Noy**, *Universitat Politècnica de Catalunya, Spain*

**Grigorii Olshanskii**, *Institute for Information Transmission Problems, Russia*

**János Pach**, *École Polytechnique Fédérale de Lausanne, Switzerland*

**Angelika Steger**, *ETH-Zürich, Switzerland*

**Van Vu**, *Yale University, USA*

**Jacob Fox**, *MIT, USA*

## 14. Mathematical Aspects of Computer Science

**Boaz Barak**, *Microsoft Research, USA*

**Mark Braverman**, *Princeton University, USA*

**Andrei Bulatov**, *Simon Fraser University, Canada*

**Julia Chuzhoy**, *Toyota Technological Institute at Chicago, USA*

**Craig Gentry**, *IBM Research Thomas J. Watson Research, USA*

**Ryan O'Donnell**, *Carnegie Mellon University, USA*

**Ryan Williams**, *Stanford University, USA*

**Sergey Yekhanin**, *Microsoft Research, USA*

## 15. Numerical Analysis and Scientific Computing

**Rémi Abgrall**, *University of Zurich, Switzerland*

**Chi-Wang Shu**, *Brown University, USA*

**Yalchin Efendiev**, *Texas A&M University, USA*

**Annalisa Buffa**, *Istituto di Matematica Applicata e Tecnologia Informatiche, Italy*

**Denis Talay**, *INRIA, France*

**Ya-xiang Yuan**, *Chinese Academy of Sciences, China*

## 16. Control Theory and Optimization

**Friedrich Eisenbrand**, *École Polytechnique Fédérale de Lausanne, Switzerland*

**Pierre Rouchon**, *Centre Automatique et Systèmes, France*

**Adrian Stephen Lewis**, *Cornell University, USA*

**Luc Robbiano**, *Université de Versailles Saint-Quentin-en-Yvelines, France*

**Monique Laurent**, *Centrum Wiskunde & Informatica, Netherlands*

**Jiongmin Yong**, *University of Central Florida, USA*

## 17. Mathematics in Science and Technology

**Weizhu Bao**, *National University of Singapore, Singapore*

**Anna Gilbert**, *University of Michigan, USA*

**Eric Cances**, *Ecole des Ponts ParisTech, France*

**Andrea Braides**, *Università di Roma Tor Vergata, Italy*

**Jean-Michel Morel**, *Ecole Normale Supérieure de Cachan, France*

**Barbara Niethammer**, *University of Bonn, Germany*

**Hinke Osinga**, *The University of Auckland, New Zealand*

**Batmanathan Dayanand (Daya) Reddy**, *University of Cape Town, South Africa*

**Andrew Stuart**, *University of Warwick, UK*

**Thaleia Zariphopoulou**, *University of Texas at Austin, USA*

## 18. Mathematics Education and Popularization of Mathematics

**Étienne Ghys**, *Lyon University, France*

**Günter M. Ziegler**, *Freie Universität Berlin, Germany*

## 19. History of Mathematics

**Han Qi**, *Chinese Academy of Sciences, China*

**Reinhard Siegmund-Schultze**, *University of Agder, Norway*

**Dominique Tournes**, *University of La Reunion, France*

# Congress Venue

## VENUE



### Coex

159 Samseong-dong, Gangnam-gu 135-731 Seoul, Republic of Korea 135-731

**PHONE** + 82-2-6000-0114

**WEBSITE** [www.coex.co.kr](http://www.coex.co.kr)

Coex is a business and cultural hub located in the heart of Seoul's business district. It is a convention and exhibition center and also a popular entertainment destination for both domestic and foreign visitors. Asia's largest underground mall, three five-star hotels, a department store, a subway station, an airport terminal, and more are all located at Coex.

## ACCESSIBILITY



Coex is located in the World Trade Center Complex in Gangnam District south of the Hangang River in Seoul. Over 3,700 international flights from 142 cities worldwide on 272 routes arrive in the Republic of Korea every week. Most international passengers use Incheon International Airport (ICN) to enter the Republic of Korea. Some passengers from China or Japan may use Gimpo International Airport (GMP). Passengers arriving in ICN or GMP will need to take a limousine bus or taxi from the airport to Coex. Airport Railroad Express & subway is also available between ICN and GMP.

## ABOUT SEOUL

### High level of Public Security and Infrastructure

Seoul, the capital of the Republic of Korea with a history of more than 600 years, is unique in that historical sites and modern cultural facilities coexist in harmony. Seoul is one of the safest places in the world for foreign travelers, with low crime rate, cutting-edge medical facilities and capable police and security authorities.

### Child-Care Services

For your convenience, SEOUL ICM 2014 LOC will offer childcare services to registered participants. The committee will subsidize this service to make it available and affordable to the participants. This service gives you an opportunity to leave your children with the professionals who are solely dedicated to keep your children in safe. The childcare service will help you to concentrate on the session as caring your children in safe environment.

## Official & Social Programs

### Opening Ceremony

The registration before the opening ceremony is required. The ceremony will be held on August 13 in Hall D, Coex. In order to attend the opening ceremony, participants must have completed the registration process at the registration counter on August 12 or up to 60 minutes before the opening ceremony on August 13.

### Welcome Reception

On August 12, a free welcome reception will be offered to congress participants and registered accompanying persons in the Coex.

### Conference Dinner

In the evening of August 16, a dinner party will be organized for the congress participants and the registered accompanying persons in the Coex. In advance registration is required and the price for the dinner is USD 50 per person.

### Closing Ceremony

Closing Ceremony will be held in Hall D, Coex on August 21, 2014.

# Cultural & Tour Programs

In an effort to reach out to a wider audience, the organizers have initiated several attractive cultural activities related to mathematics for the accompanying persons and general public. The registered participants and the accompanying persons may purchase tickets in advance for the social events as well as for many day trips and pre-congress or post-congress tours. During the Congress, a number of guided tours of Seoul and walking tours will be offered.

## FAMILY-FRIENDLY ICM



Seoul is filled with great family-friendly activities. The on-site childcare facility will be available to the accompanying persons of the participants. We recommend some of Seoul's best destinations for the family - from a day at a theme park to youth-focused outdoor events and countless playgrounds in the heart of downtown. Three Disney-style theme parks (LOTTE WORLD, SEOUL LAND, and EVERLAND) are around 10 min to 1 hour bus/subway ride from central Seoul.

Especially in summer season, all the theme parks are open until late at night performing fantastic laser shows and fireworks. Bring your family to SEOUL ICM 2014, and experience wonderful festivals and magnificent shows at the theme parks in Korea! Family-friendly ICM will make your journey all the more special. Find out more information about Family-Friendly ICM at [www.icm2014.org](http://www.icm2014.org)



Deoksugung Palace



Teaism



N Seoul Tower

## TOUR PROGRAMS

Participants can make a reservation for tour at SEOUL ICM 2014 official website. After completing the reservation form, the confirmation letter will be sent directly to the participant from the secretariat on the condition of appropriate reservation status. For more information, please visit the SEOUL ICM 2014 official website ([www.icm2014.org](http://www.icm2014.org)) or contact via email at [tour@icm2014.org](mailto:tour@icm2014.org).

No.	Tour Name	Date
DMZ 1	DMZ and War Museum Tour (08:00~17:00)	8.13,14~17,19~21
DMZ 2	DMZ afternoon Tour (11:00~18:30)	8.12,17,21~22
HT 1	Morning Palace Tour (09:00~14:00)	8.13,15,17,20
HT 2	World Cultural heritage Tour (12:00~18:00)	8.13,15,17,20
HT 3	Tower, Hanok village Tour (09:00~14:00)	8.14,16~18
HT 4	Afternoon Shopping & palace Tour (12:00~17:30)	8.14,16~17
FT 1	Traditional attractions Tour(HT1+HT2) (09:00~18:00)	8.13,15,17,20
FT 2	Seoul's yesterday and today Tour (HT3+HT4) (09:00~17:30)	8.14,16,17
FT 3	Back to Ancient Korea (09:00~17:00)	8.15,17,19
FT 4	Top attractions of Seoul (09:00~20:30)	8.20~22

• NOTE: DMZ Tour (DMZ), Half Day Tours (HT), Full day Tour (FT).



DMZ 1



DMZ 2



HT 1



HT 2



HT 3



HT 4



FT 3



FT 4



# NANUM 2014 Program

## Invitation of 1,000 Mathematicians from Developing Countries to Korea: NANUM 2014

To make the congress a true world-wide gathering, the SEOUL ICM 2014 Organizing Committee places special emphasis on supporting mathematicians from developing countries. Members of the Korean Mathematical Society fully acknowledge the gracious support received from the international mathematical community in the 70's and 80's, and hope more countries can share in the benefits.

This has motivated the theme of "Solidarity in Mathematics", and 1,000 mathematicians from developing countries will be invited to Korea during SEOUL ICM 2014. Many of these mathematicians would not have been able to visit an ICM otherwise, and stand to bring the ICM excitements and new knowledge back to their home countries.

By collaborating with IMU/CDC, we are developing selection guidelines for this travel assistance program, called:

### "Solidarity in Mathematics, NANUM 2014"

NANUM is a Korean word meaning "gracious and unconditional sharing." A selection policy integrating age, gender and geographical balance is being carefully crafted. The SEOUL ICM 2014 Organizing Committee welcomes our colleagues from around the world to the Congress, and very much hope that you will also be able to attend it and savor some of the fine attractions that our country offers.

A total of 3,608 mathematicians have applied for "NANUM 2014" program and grantees have been announced on January 17, 2014. The selection announcement is a result of months of very difficult review process by five regional review committees. In addition to applicants' mathematical capability, the review committees also considered the balance of regions, gender, age, and mathematical areas.

For more information, please visit the SEOUL ICM 2014 official website ([www.icm2014.org](http://www.icm2014.org)) or contact via email at [nanum@icm2014.org](mailto:nanum@icm2014.org).

No.	Tour Name	Date
ET 1	Taekwondo Tour (09:00~13:30)	8.14,20
ET 2	Korean Mask making, Dongdaemun Tour (12:30~18:00)	8.12,17,21
ET 3	Temple Life of Korea (09:00~16:00)	8.17,19
ET 4	Kimchi Making, Hanbok wearing Tour (12:30~17:30)	8.16,18
NT1	Dinner Buffet Cruise Tour (18:00~22:30)	8.12,16,17,20,21
NT 2	Into Korean's real life (18:00~22:00)	8.13~15,18,19
FMT 1	Everland Tour (09:00~18:00)	8.14,15,17,20
FMT 2	Korean Folk Village (09:00~16:30)	8.13,16,18,19,21
FT 3	Back to Ancient Korea (09:00~17:00)	8.15,17,19
FT 4	Top attractions of Seoul (09:00~20:30)	8.20~22

• NOTE: Experience Tour (ET), Night Tours (NT), Family Tours (FMT).



ET 1

ET 2

ET 3

ET 4



NT 1

NT 2

FMT 1

FMT 2

### i Tour Seoul App



- Comprehensive Travel Information
  - Growing directory of tourist attractions, shopping destinations, hotels, restaurants and more. All basic and essential information is also included, such as banks, currency, exchange, booths, translation services, useful numbers, tourist information centers and more.
- Real Tourist Reviews
  - Also includes genuine reviews and feedback from international visitors just like you.

### Ambassadors for NANUM 2014

The SEOUL ICM 2014 Organizing Committee appointed ambassadors for NANUM 2014 among mathematicians from developing countries with strong sense of responsibility in charge of publicizing SEOUL ICM 2014 invitation program. Names of ambassadors are at the website ([www.icm2014.org](http://www.icm2014.org))

### MENAO (Mathematics in Emerging Nations: Achievements and Opportunities)

The MENAO event, which features about 100 participants/discussants and is open to an additional 350 observers, will take place on the day immediately preceding the opening of the congress. A detailed program will be developed and distributed by the IMU.

## Exhibition

The SEOUL ICM 2014 Exhibition, to be run concurrently with the congress, will be an excellent opportunity to promote companies and/or organizations directly to event participants, many of whom will hail from all over the world. You would therefore be ideally-placed to deliver your message to this diverse and professional captive audience.

Applications for an exhibition space should be submitted to the Secretariat via email at [es@icm2014.org](mailto:es@icm2014.org). The Exhibition Application Form can be downloaded at official website ([www.icm2014.org](http://www.icm2014.org)) and the completed form must be submitted no later than May 31, 2014

Category		Booth Size	Rate (USD)	Rate (KRW)
Commercial Exhibitions	Standard booth	3m x 3m	5,000	5,500,000
	Raw space	3m x 3m	5,000	5,500,000
Non-Commercial Exhibitions	Academic booth	3m x 2m	2,500	2,750,000

For more information, please visit the SEOUL ICM 2014 official website ([www.icm2014.org](http://www.icm2014.org)) or contact via email at [es@icm2014.org](mailto:es@icm2014.org).

## Sponsorship

The SEOUL ICM 2014 welcomes any organizations or companies wishing to support this event. Package sponsorship and exclusive sponsorship are available and they offer various compensation models to meet different needs and to maximize exposure during the Congress.

International Congresses of Mathematicians are outstanding for several reasons:

- They convene mathematicians from all over the world.
- It is at these events when Fields Medals and other prizes are awarded.
- They are a great forum in which the state of research and development in Mathematics is checked.
- They provide a platform for many satellite events, making the host country a focal point before, during and after the congress.

For sponsorship menu and application, please visit the SEOUL ICM 2014 official website ([www.icm2014.org](http://www.icm2014.org)) or contact via email at [icm@icm2014.org](mailto:icm@icm2014.org).

## Registration & Accommodations

### REGISTRATION

Registration is required in order to be admitted to the venue and for participation in the scientific program of the congress and other SEOUL ICM 2014 activities. All registrations must be completed on official website ([www.icm2014.org](http://www.icm2014.org)). The registration will be considered as binding when it is received by the online registration system and full payment has been received.

### Registration Fees

If you wish to take advantage of the discounted registration fee, it is strongly recommended to register by May 10, 2014 to meet early advance registration.

Category	Early Advance Registration by May 10, 2014	Advance Registration by July 10, 2014	Onsite Registration from August 11, 2014 <sup>2</sup>
Full Registration	USD 450	USD 500	USD 550
Student <sup>1</sup>	USD 200	USD 250	USD 300
Accompanying person	USD 100	USD 120	USD 150

For more information, please visit the SEOUL ICM 2014 official website ([www.icm2014.org](http://www.icm2014.org)) or contact via email at [registration@icm2014.org](mailto:registration@icm2014.org).

### ACCOMMODATIONS

The SEOUL ICM 2014 Organizing Committee has selected a number of accommodations in different categories in main areas of Seoul - most of them conveniently located on major transportation routes and accessible by subway. Special rates have been secured for Congress participants by the Committee.

### Headquarter Hotel & Official Hotel

Participants can make a reservation for headquarter hotel and official hotel through SEOUL ICM 2014 website. Since rooms will be reserved on a first-come, first-served basis, we may be unable to provide rooms with the special rates quoted when rooms get fully booked. Therefore, early booking is highly recommended.

No	Category	Class	Hotel	Room Rate (KRW)	VAT & SVC	Distance (From Venue)
1	Headquarter Hotel	Super Deluxe	Grand Intercontinental Seoul Parnas	260,000 ~ 300,000	Excl. 21%	3min. on foot
2		★★★ ★★				

No	Category	Class	Hotel	Room Rate (KRW)	VAT & SVC	Distance (From Venue)	
3	Official Hotel	Super Deluxe ★★★★ ★★	Oakwood Premier Coex Center Seoul	235,000 ~ 290,000	Excl. 21%	4min. on foot	
4			Renaissance Seoul Hotel	212,000		10min. by car	
5			Lotte Hotel World	260,000		12min. by car	
6			Imperial Palace Hotel	198,000		15min. by car	
7			Sheraton Grande Walkerhill Hotel	220,000		20min. by car	
8			Novotel Ambassador Gangnam	209,000		30 min. by car	
9			JW Marriott Seoul	220,000 ~ 290,000			
10			Riviera Hotel	165,000			
11			Deluxe ★★★★	Mercure Seoul		160,000	Excl. 21%
12		Ramada Seoul Hotel		143,000	7 min. by car		
13		Ellui Hotel		120,000	10 min. by car		
14		Best Western Premier Gangnam		165,000	Excl. 10%	15 min. by car	
15		Samjung Hotel		181,500 ~ 205,700	Incl.		
16		First ★★★★		IBIS Ambassador Seoul	155,000	Excl. 10%	7 min. by car
17		Serviced Residence		Casaville Samsung	90,000	Incl.	5 min. by car
18				Gangnam Serviced Residence	132,000		10 min. by car

\* Breakfast rate could be charged to above rate depends on hotel.

\* Hotel reservations should be made by July 10, 2014. Room booking and changes made after July 10, 2014 cannot be guaranteed and will be subject to room availability.

For more information, please visit the SEOUL ICM 2014 official website ([www.icm2014.org](http://www.icm2014.org)) or contact via email at [hotel@icm2014.org](mailto:hotel@icm2014.org).

### Budget Hotel

If you're looking for low budget accommodation which is clean, safe and conveniently located, please visit the SEOUL ICM 2014 accommodation website and contact the hotel directly for further information.

### Dormitory

The SEOUL ICM 2014 Organizing Committee is offering event participants low-budget accommodation at university student dormitories. The two universities selected for accommodation are both conveniently located on major transportation routes and accessible by subway. Special rates for NANUM (including TOGETHER) Travel Grants have been secured by May 10, 2014, and the dormitory reservation will be available on the official website in late February 2014. For more information, please visit the SEOUL ICM 2014 official website ([www.icm2014.org](http://www.icm2014.org)) or contact via email at [dorm@icm2014.org](mailto:dorm@icm2014.org).

## Useful Information






### PASSPORT AND VISA

Any foreign visitors wishing to enter the Republic of Korea must have a valid passport. Nationals of those countries or regions with which Korea has signed a visa waiver agreement can enter without a visa, on the condition that they do not engage in remunerative activities during their stay, whereas other nationals requires entry visa. The homepage of the 'Korean Ministry of Foreign Affairs and Trade' lists countries under visa exemption agreement. Please contact the Korean Embassy or Consulate in your departure country for further details.

### LETTER OF INVITATION

An official invitation letter will be sent by the Chair of the SEOUL ICM 2014 LOC upon request. This personal invitation is intended only to facilitate travel and visa arrangements to the registered participants. Visa applications are the sole responsibility of participants. Delegates must complete the formal registration process to receive an official invitation letter.

### PRACTICAL INFORMATION

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**Time Zone**  
 Korea Standard Time is Greenwich Mean Time plus 9 hours (GMT +9) and does not have daylight savings time.
- 
**Climate**  
 SEOUL ICM 2014 will be held in August. The average temperature of Seoul in August is 28°C. Although the weather is hot, there will probably be some rain, so you may need an umbrella or a jacket.
- 
**Currency**  
 Korea's currency is the won, which comes in 1,000 (US\$ 0.9), 5,000, 10,000 and 50,000 won bills, and 10, 50, 100 and 500 won coins. Most larger stores, hotels and restaurants in Korea will accept major international credit cards. However, it is advisable to carry some cash for small kiosks that do not accept credit cards.
- 
**Electricity**  
 The standard electricity supply is 220 volts AC at 60Hz. Some hotels may provide outlet converters for 110 and 220 volts. Visitors are advised to check with the hotel beforehand or bring a suitable adapter.
- 
**Transportation from Airport**  
 There are two main airport near Seoul, Incheon International Airport and Gimpo International Airport. There are convenient bus and subway systems from the airports to all around Seoul and its suburbs.

# Organizing Committees

## CHAIR

Hyungju PARK (Chair, POSTECH)

## EXECUTIVE ORGANIZING COMMITTEE (ICM-EOC)

- |  |  |
|--|--|
| 1. Hyungju PARK (Chair, POSTECH)                         | 8. Seok-Jin KANG (Seoul National Univ) |
| 2. Hyang-Sook LEE (Senior vice chair, Ewha Womans Univ.) | 9. JongHae KEUM (KIAS)                 |
| 3. Dongsu KIM (Vice Chair, KAIST)                        | 10. Jeong Han KIM (KIAS)               |
| 4. Kyewon Koh PARK (Vice Chair, Ajou Univ.)              | 11. Seonja KIM (Chungwoon Univ.)       |
| 5. Jaeduck JANG (Hankuk Univ. of Foreign Studies)        | 12. June-Yub LEE (Ewha Womans Univ.)   |
| 6. Sun Young JANG (Univ. of Ulsan)                       | 13. Jungseob LEE (Ajou Univ.)          |
| 7. Hyeonbae KANG (Inha Univ.)                            |  |

## ORGANIZING COMMITTEE (ICM-OC)

### IMU General Assembly

1. Jeong Han KIM (Chair, KIAS)
2. Yun Sung CHOI (POSTECH)
3. Mihyun KANG (Technische Universitat Graz, Austria)
4. Young Soo KWON (Yeungnam Univ.)
5. Yong Hoon LEE (Pusan National Univ.)
6. Yongdo LIM (Sungkyunkwan Univ.)

### Local Program

1. JongHae KEUM (Chair, KIAS)
2. YoungJu CHOIE (POSTECH)
3. Bokhee IM (Chonnam National Univ.)
4. Sung-Eun KOH (Konkuk Univ.)
5. Keonhee LEE (Chungnam National Univ.)
6. Seok-Zun SONG (Jeju National Univ.)

### Planning and Finance

1. Jungseob LEE (Chair, Ajou Univ.)
2. Jaeduck JANG (Hankuk Univ. of Foreign Studies)
3. Jung-Rye LEE (Daejin Univ.)
4. Hye Sook PARK (Seowon Univ.)

### International Exchanges

1. Dongsu KIM (Chair, KAIST)
2. June Gi KIM (Kangwon National Univ.)
3. Sung-A KIM (Dongguk Univ.)
4. Minkyu KWAK (Chonnam National Univ.)
5. Yongnam LEE (KAIST)
6. Kyewon Koh PARK (Ajou Univ.)
7. Heesung SHIN (Inha Univ.)

## Public and Media Relations

1. Hyang-Sook LEE (Chair, Ewha Womans Univ.)
2. Jun-Muk HWANG (KIAS)
3. Intae JEON (The Catholic Univ. of Korea)
4. Suh-Ryung KIM (Seoul National Univ.)
5. Chang-Ock LEE (KAIST)
6. Yongjin SONG (Inha Univ.)

## Cultural Activities

1. Seok-Jin KANG (Chair, Seoul National Univ.)
2. Sunah KIM (Chosun Univ.)
3. Sang-Gu LEE (Sungkyunkwan Univ.)
4. Poo-Sung PARK (Kyungnam Univ.)
5. Seunghun YI (Youngdong Univ.)
6. June Bok LEE (Yonsei Univ.)

## Web & Electronic Communications

1. June-Yub LEE (Chair, Ewha Womans Univ.)
2. Jae Choon CHA (POSTECH)
3. Sang-il OUM (KAIST)
4. Jae-Suk PARK (POSTECH)
5. Jin-Hwan Cho (Univ. of Suwon)

## Publications

1. Sun Young JANG (Chair, Univ. of Ulsan)
2. Geon Ho CHOE (KAIST)
3. Young Rock KIM (Hankuk Univ. of Foreign Studies)
4. Dae-Woong LEE (Chonbuk National Univ.)
5. Jongwoo LEE (Kwangwoon Univ.)
6. Ikkwon YIE (Inha Univ.)

## Parallel Scientific Activities

1. Hyeonbae KANG (Chair, Inha Univ.)
2. Sunghan BAE (KAIST)
3. Minhyong KIM (Univ. of Oxford)
4. Woo Young LEE (Seoul National Univ.)
5. Yong-Geun OH (Univ. of Wisconsin-Madison)
6. Jongil PARK (Seoul National Univ.)

## Social Activities and Logistics

1. Seonja KIM (Chair, Chungwoon Univ.)
2. Youngook CHOI (Yeungnam Univ.)
3. Soon-Yi KANG (Kangwon National Univ.)
4. Hyun Seok KIM (Sogang Univ.)
5. Ki-Heon YUN (Sungshin Womans Univ.)

## \* Ex officio

1. Gwang Hui KIM (Kangnam Univ.)
2. Do Sang KIM (Pukyong National Univ.)
3. Joongul LEE (Hongik Univ.)
4. Ke-Seung LEE (Korea Univ.)
5. Nany LEE (Univ. of Seoul)
6. Jaebum SOHN (Yonsei Univ.)

## ADVISORY COMMITTEE

### Co-Chairs

- |                                     |                                  |
|-------------------------------------|----------------------------------|
| 1. Dohan KIM (Seoul National Univ.) | 2. Kyung Chan MIN (Yonsei Univ.) |
|-------------------------------------|----------------------------------|



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**SEOUL ICM 2014**  
INTERNATIONAL  
CONGRESS OF  
MATHEMATICIANS

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**The Secretariat of SEOUL ICM 2014**

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