

Host Country, Korea

Korea is one of the most spirited and colorful countries in the world. In the short time following its dramatic and impressive development, it has managed to maintain the delicate balance between preserving its impressive history and tradition whilst embracing all the conveniences and technology of the modern world.

Traditional Charms and Trendsetting Culture

With over 5000 years of history, Korea is a country full of vibrant colors and positive energy. Following its miraculous development over the last 50 years, Korea is now a modernized nation that maintains its traditional culture. Korea offers delegates a spectacle of world heritage sites, picturesque nature, and urban landscapes. A handful of unique experiences, ranging from shopping to team building activities, await business travelers too.

Convenient Access and Safe

Korea is easily accessible from most major international cities. Korea has an excellent record of public safety and security. Delegates can walk around freely and enjoy the vibrant nightlife in Korea without worrying about their safety.

Learn Useful Korean Phrases and Expressions

Here's a list of Korean phrases that you will need to join in on the fun and converse in Korean.

English	Korean	Transliteration
How are you/Hello	안녕하세요	annyeonghaseyo
Nice to meet you	만나서 반갑습니다	mannasuh bangapseumnida
Yes	네	ne
No	아니요	aniyo
Bon appetit /Have a nice meal	잘 먹었습니다	jal meokkesseumnida
Excuse me	실례합니다	sillyehabnida
Have a nice day	좋은 하루 되세요	joeun haru dweseyo
Thank you	감사합니다	kamsahamnida
I miss you	보고 싶다	bogoshipda
I love you	사랑해	sarang hae

To keep up to date on the organization, ICDERS2023 E-NEWS will be electronically sent to people who subscribe via the website. It will provide information on the scientific and social program, registration, accommodation, travel, and tours as the organization of the Colloquium develops.

To subscribe to E-NEWS log on to: www.icders2023.co.kr
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ICDERS 2023 Office

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The 29th International Colloquium
on the Dynamics of Explosions
and Reactive Systems

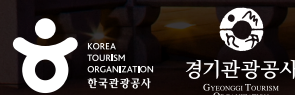
ICDERS 2023

July 23 ~ 28, 2023
SNU Siheung, Korea

Host



Sponsor



Welcome Message



As the chair of the Local Organizing Committee of the ICDERS 2023, I welcome you all to the 29th International Colloquium on the Dynamics of Explosions and Reactive Systems (ICDERS 2023) hosted jointly by the Korean Society of Combustion Institute (KOSCO) and Seoul National University (SNU).

ICDERS has been held every two years since its founding in 1967 and continued to provide a platform for researchers interested in explosions and unsteady combustion, where there is strong coupling between reaction and fluid mechanics. The program will include world-renowned invited speakers alongside scientific meetings with contributions selected for acceptance by a program committee on the basis of peer reviews.

The venue, SNU Siheung Campus, a new addition to SNU campus, situated in the Gyeonggi province is in the central-western part of the Korean Peninsula that surrounds the city of Seoul and Incheon. It is conveniently located from the Incheon International Airport which is one of the world's biggest airports in terms of international passengers. There are plenty of rich tourist attractions, shopping centers, and leisure activities. I hope that your participation in ICDERS 2023 will provide a truly memorable and professional experience.

With your strong support and help, we would like to offer you all with a safe, wonderful and most enjoyable week-long program as all members of the community will continue to prevail over COVID-19 together. The host committee will look forward to warmly welcoming old friends, dear colleagues, and young researchers expectantly attending the ICDERS 2023 in Korea.

With our wholehearted welcome

YOH, Jai-ick (Jack)

Chair, The Host Committee of ICDERS 2023
Professor, Seoul National University



It is a pleasure to introduce the Korean Society of Combustion Institute (KOSCO) as the local host for the 29th International Colloquium on the Dynamics of Explosions and Reactive Systems (ICDERS 2023) which will be held in Korea for the first time.

KOSCO was founded in 1986, and the current number of members including students is almost 1,000. The members of the KOSCO have been at the forefront of advancing combustion science

and technology in all relevant areas, around the world as well as in Korea.

KOSCO is expecting a big contribution and impact from the ICDERS 2023 to international scientific activities in the changing environment of the combustion-related energy industry since ICDERS will continue its tradition of providing a representative spectrum of up-to-date scientific information on today's research and applications in the field of combustion.

The members of KOSCO will fully support the successful hosting of the ICDERS 2023 based on their experience of successfully hosting the International Symposium on Combustion Institute in 2016. We are looking forward to an excellent meeting with great colleagues and sharing new and exciting results in combustion science and technology, which will be held in Korea from July 23-28, 2023.

KWON, Oh Chae

President, The Korean Society of Combustion
Professor, Sungkyunkwan University

About ICDERS

The International Colloquium on the Dynamics of Explosions and Reactive Systems (ICDERS) has been held every two years since its founding in 1967. The colloquium has been the premier international forum for the presentation of scientific contributions in the fields of explosions and unsteady combustion, where there is a strong coupling between reaction and fluid mechanics. It is held on alternate years from The International Combustion Symposium and is recognized by The Combustion Institute as a Specialists Meeting on the fluid dynamics of combustion.

The typical topics discussed at the Colloquium are:

- Detonation front structure in gases and multi-phase systems
- Initiation, propagation, and failure of detonations
- High-speed flames - confined and unconfined
- Turbulence in compressible reacting flows
- Transition from deflagration to detonation
- Diagnostics for high speed flows
- Astrophysical explosions - flames and detonations in supernova
- Propulsion and material processing applications of detonations and high-speed flames
- Dynamics of ignition in gases
- Flame instabilities and quenching
- Ignition and flame spread over liquid layers
- Flame propagation in internal combustion engines
- Combustion in fireballs and fuel clouds
- Generation and coupling of shock waves with rapid combustion
- Modeling the coupling of detailed chemical reaction kinetics with transient fluid dynamics
- Scientific analysis of accidental explosions and mitigation strategies

ICDERS 2023

Mark your calendars and save the date to attend the ICDERS 2023.

Meet	World-renowned Invited Speakers	Contribute	to 75+ Scientific Sessions
Share	Information & insights	Experience	Korean Vibes

Category	Delegate		Accompanying person
	Delegate	Student	
Early bird registration (~ March 31, 2023)	\$ 750	\$ 530	\$ 200
Regular registration (~ June 14, 2023)	\$ 850	\$ 610	\$ 250
On-site registration	\$ 930	\$ 660	\$ 300

The registration fees include:

- Admission to the scientific sessions
- Congress documents, including badge
- Access to the exhibition and posters
- Coffee break, lunch during the event
- Welcome & Farewell parties
- Excursion & Excursion dinner