

# FRAGBLAST 13

13<sup>th</sup> INTERNATIONAL SYMPOSIUM ON ROCK FRAGMENTATION BY BLASTING

October 17-19, 2022 Hangzhou, China



The International Symposium on Rock Fragmentation by Blasting (FRAGBLAST) is a key international forum for sharing the state of the art in rock blasting and explosives engineering. It aims at promoting the understanding of explosive-rock interaction in all aspects and the exchange of research and field experience in rock blasting. Beginning in 1983, the FRAGBLAST symposia have been held in 10 countries all over the world, contributing an unparalleled combination of scientific advances and practical applications.

Sweden (1983 & 2018)	South Africa (1999)
USA (1986)	<b>China (2002 &amp; 2022)</b>
Australia (1990 & 2015)	Chile (2005)
Austria (1993)	Spain (2009)
Canada (1996)	India (2012)

With the prominence of blasting engineering activities and R&D initiatives in China, the FRAGBLAST International Organizing Committee (FIOC) has rewarded **FRAGBLAST 13** to China Society of Explosives and Blasting (CSEB). After one year delay by the pandemic, the event would be held during **October 17-19, 2022**, in **Hangzhou**, the “City of Heaven” in China, **in both online and on-site forms**.

Sincerely hope FRAGBLAST 13 could draw attentions from blasting engineers, explosives manufacturers as well as researchers and professionals of related disciplines all over the world.

## Program

October 17 Mon	Fragblast 13
October 18 Tue	Fragblast 13
October 19 Wed	Fragblast 13

## Symposium Topics

- Mechanics of Rock Blasting
- Blasting Model and Blast Simulation
- Rock Fragments Prediction and Control
- Open-pit and Underground Blasting
- Demolition and Special Blasting
- Explosive Performance
- Electronic Detonators and New Explosives
- Blasting Damage and Blasting Vibration
- Blast Impact Assessment and Control
- Sustainable Blasting and new Developments
- Blasting Information Technologies
- Case Studies, etc.

## Registration

<b>Online (recorded)</b>	<b>On-site (recorded)</b>
In Zoom app	In Hangzhou
International & national delegates	National delegates
<b>Free registration fee</b>	Registration fees
Paid Proceedings	Paid Proceedings

## Important Dates

Abstract acceptance notification	April 1, 2022
Paper submission deadline	May 1, 2022
Paper acceptance notification	July 1, 2022
Final paper submission	August 1, 2022

All abstracts and papers should be submitted through the website.

**Abstracts and papers are still welcome before May 1, 2022.** If you missed the abstract submission deadline, you may still submit your abstract online and contact us for a quick review. If you need an extension of the deadline, please email us for the permission.

## Exhibition

The Symposium includes an exhibition during the event from October 17-19, 2022. It will provide a scope to present equipment, new technologies, software, etc. The exhibitors will have an excellent opportunity to interact with the conference delegates **in a special online Exhibition Room in Zoom Meeting**.

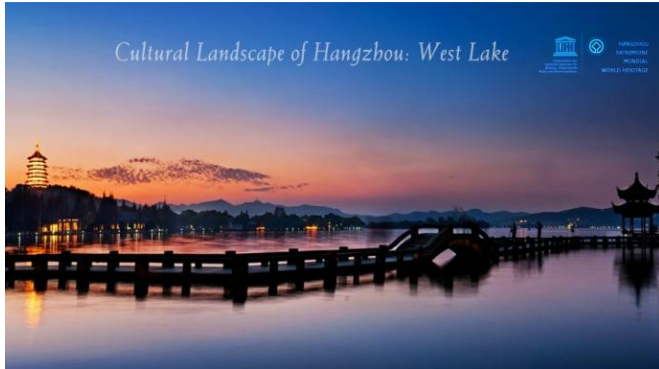
For exhibition and sponsor opportunities, please contact [sponsor@fragblast13.org.cn](mailto:sponsor@fragblast13.org.cn).

**Symposium website: [www.fragblast13.org.cn](http://www.fragblast13.org.cn)**

## City

**Hangzhou**, capital of Zhejiang Province on the east coast of China, is known as 'Heaven on Earth', with its stunning natural beauty and rich cultural heritage. It was described by Marco Polo as "the finest and most splendid city in the world".

Hangzhou grows to prominence as the southern terminus of the Grand Canal and the city's West Lake, a UNESCO World Heritage Site, is amongst its best-known attraction.



## Contact

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## CSEB

China Society of Explosives and Blasting (CSEB), established on October 13, 1994 in Beijing, is a voluntary industry-based national association. CSEB has more than 600 members, ranging from government sectors, scientific research institutes, universities to companies related to explosives and blasting.



The Association serves as the bridge between the government and the industry, and aims to promote blasting workers all over the country to pursuit the spirit of "dedication, innovation, pragmatism, collaboration", to strengthen enterprise management, and to make progress in science and technology so as to promote the prosperity and sustainable development of Chinese engineering blasting.



2<sup>nd</sup> Announcement

**FRAGBLAST 13**

**October 17-19, 2022**

**Hangzhou, China**

*Online & On-site*

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