

[Magnitude 5 earthquake hits Chongqing](#)

A magnitude 5 earthquake hit Wulong county of southwest China's Chongqing Municipality at 5:43 p.m. Thursday, according to the China Earthquake Networks Center.

The epicenter was monitored at 29.4 degrees north latitude and 107.94 degrees east longitude.

The quake struck at a depth of about 10 km.

The tremor was felt strongly in Chongqing's city districts such as Yubei and Shapingba.

The municipal earthquake administration has sent experts and rescuers to the quake zone.

Wulong is home to the scenic area Wulong Karst, which was named as a world natural heritage by UNESCO in 2007. Scenes for the Hollywood blockbuster "Transformers 4: Age of Extinction" were partly filmed in the area.

[6th China-Eurasia Expo to be held in Xinjiang in 2018](#)

The sixth China-Eurasia Expo will be held in Urumqi, capital of Xinjiang Uygur Autonomous Region, in August 2018, organizers said Thursday.

The exhibition area is expected to cover 140,000 square meters, with themed pavilions for investment and cooperation, poverty alleviation, featured products, and publications.

The total amount for domestic projects signed during previous expos exceeded 1 trillion yuan (US\$150 billion), and the foreign trade turnover amounted to 30 billion U.S. dollars, organizers said.

Huang Sanping, deputy director of the organizing committee, said the expo had become an important platform for exchange and cooperation between China and Eurasian countries, and showcased Xinjiang's rapid development.

New technology adopted to protect fireworks workers

Concerns about explosions and health issues have resulted in improved production procedures and stricter supervision.



People take photos at an international firework festival which is held every two years in Liuyang, Hunan province. The city is widely regarded as China's fireworks capital. [Photo by Hou Liqiang/China Daily]

As the government continues to tighten controls on the manufacture of fireworks, companies in the industry are also making efforts to further automate the production process and reduce the risks to employees and the public.

The moves follow a number of high-profile accidents, the latest of which occurred on Sept 22, when seven people – five production line workers, a doorkeeper and a manager – were killed in an explosion at a factory owned by Fenglin Fireworks Export in Pingxiang, Jiangxi province.

There are 2,800 fireworks factories nationwide, according to the China Fireworks and Firecrackers Association. Wu Zhengli, the association's secretary-general, said the industry's annual output value is between 60 billion and 80 billion yuan (\$9 billion and \$12 billion). Although domestic sales have fallen by 15 to 30 percent – mainly as a result of stricter regulations governing firework use in urban areas – the export value is relevantly stable at about 5 billion yuan a year.

The industry is one of the oldest in China, and dates back more than 1,000 years. While gunpowder, one of the “Four Great Inventions of Ancient China”, has been hailed as making a significant contribution to civilization, the use of fireworks has been increasingly criticized because of the risks inherent in production and use, and pollution concerns. Zhong Ziqi, the association’s director, said about 1,000 cities have banned or restricted the use of fireworks in recent years.

Although manufacturers are required to obtain new safe-production licenses every three years, industry insiders claim they are becoming increasingly difficult to acquire as a result of more-stringent supervision.

Liu Yan, general manager of Xinghe Fireworks Manufacturing in Pingxiang – which exports products worth more than 70 million yuan a year to 10 countries – said that in the past national safety standards were not enforced rigorously because local governments were committed to economic development. Now, the requirements are being enforced more strictly, and companies commonly invest more than 40 percent of their profits in security measures, she added.

There are no official statistics about the number of fireworks factories that have failed to renew, or have been refused, licenses, but many have already closed in Liuyang, Hunan province, which is widely regarded as China’s fireworks capital because of the high production volume.

Last year, there were about 900 fireworks factories in the city, but the number should fall to 560 by the end of the year, as stipulated by the city’s work safety authority. By Oct 18, 215 factories had either closed or had scaled back production.

Overcoming doubts

In 2009, Liuyang Zhongzhou Fireworks was one of the first manufacturers to install an automatic production line, despite doubts among industry insiders and most of the company’s 500 shareholders.

The line was installed after three years’ of research and development, but it was less efficient than expected, and the company had to spend more than 10 million yuan a year to raise output, said Li Changkai, the president.

“I was the only person among the 500 shareholders to back further investment in the line. The others thought that R & D was a bottomless pit that would never yield returns,” he said, adding that he was determined to retain the automatic line because it broke the production process down into individual stages and protected the employees.

“Our workers’ safety can only be guaranteed by the use of machines that separate them from the gunpowder,” he said.

In 2015, Li saw a light at the end of the tunnel when a third-generation production line was put into operation. The line is capable of producing 2 million boxes of fireworks a year, with an annual production value of 200 million yuan. Moreover, only 11 employees are involved in the process,

compared with 300 before. The less contact people have with gunpowder the lower the risk of accidents, the company said.

Liuyang Zhongzhou now operates 10 automatic lines in Liuyang and nearby Liling city, and five more are scheduled to come into operation early next year. However, at 26.8 million yuan per line, few small producers can afford the technology, so Li plans to rent his lines to competitors.

"We will charge companies to rent the lines, and also ask for a percentage of the profits, so we expect to recover the cost of one line in about two years," he said.

"The current line removes the basic safety risks but is not as 'intelligent' as I would wish," he said, noting that the line is unable to produce a wide variety of fireworks. "I'm not satisfied with it, so we will invest more in R& D."

This year, the company has spent 30 percent of its profits on upgrading the line. It has also invested 50 million yuan on construction of a 6,000-square-meter R& D center in Liuyang, and will spend more to bring in fresh talent, he added.

According to the Hunan Work Safety Authority, Liuyang Huaguan Fireworks also put an automatic line into operation this year, after investing 110 million yuan on five years of R& D.

For safety reasons, the line contains just 23 kilograms of gunpowder, spread across 18 separate machines and transport units. No labor is needed if the entire line is operating as planned. The authority said pollution concerns have been addressed by replacing the yellow mud that was traditionally used to block the end of firework tubes, but can contaminate water sources, with a new material that is environmentally friendly and can be recycled to make paper.

Meanwhile, Hunan Kefu Fireworks, in Liling, will soon begin trial operations of an automatic production line.

"There are three main procedures in firecracker production – inserting lead linings, filling the tube with gunpowder, and blocking the end of the tube, which are all dangerous exercises", Pan Jiangping, Kefu's general manager, said, adding that the company has invested 22 million yuan in R & D and the construction of a building to accommodate the line.

"The line will automate these procedures and make production safer. Traditional production techniques mean gunpowder is often exposed to the air, which poses a safety risk. Instead, we will use a closed system to prevent major leaks. Any gunpowder that does leak will quickly be collected to prevent dust from threatening the workers' health."

Li, of Liuyang Zhongzhou Fireworks, has seen many changes during the 20 years he has spent in the industry, and he is adamant that safety is always the main priority.

“Fireworks are for entertainment and should bring people happiness. Accidents were commonplace when they were traditionally made by hand, and resulted in many injuries. I would rather not continue if we can’t guarantee our workers’ safety,” he said.

Instant hotpot raises safety concerns

Instant, self-heating hotpot has become the latest food craze in China. However, it’s also raising safety concerns at the same time, reports the Workers’ Daily.



An advertisement for instant, self-heating hotpot [Screenshot: tmall.com]

Priced between 20 to 50 yuan, the hotpot set generally contains a heat pack which can be activated by room-temperature water. It can then generate enough heat to steam a small bowl of ingredients for 10 to 20 minutes.

However, researchers with Southwest University say the heat pack remains a major safety concern for consumers.

“A heat pack usually contains calcium lime. When this is combined with water, the temperature in the hotpot’s plastic container can reach up to 90 degrees within 10 seconds. This can deform the container, which runs the risk of hurting people, and may even lead to an explosion,” said researchers at the

school.

Meanwhile, the ingredients in the hotpot pack, which commonly contains meat, vegetables and a base soup, are being questioned about whether they comply with China's food-safety standards and requirements.

The report in the Workers' Daily also claims that the self-heating hotpot has not obtained a legal production license from Chinese food authorities.

100k reward offered for shooter's capture

Police in Guangdong province are offering a reward of 100,000 yuan (\$15,000) for the capture of the suspect in a mass shooting on Tuesday night in Raoping county.

Lin Zhonghong, 40, is accused of killing three people and injuring six others in Raoping county, according to the local public security bureau.

According to a witness, Lin opened fire on two brothers, Lin Zhenxiao, 49, and Lin Zhentian, 47, in Jingzhou township at 7:53 pm, killing both.

The brothers threatened to beat the suspect with steel pipes because he had attacked them the previous night, according to a source close to the case who did not want to be named.

Previously, Lin Zhonghong, the suspected shooter, had a fierce quarrel with the brothers after failing to reach an agreement on opening secret casinos, the source said.

After shooting the brothers and fleeing, Lin opened fire on people who were chasing him.

Police were immediately sent to the scene and found the two brothers dead. Both had been shot in the head.

Lin Zhikai, 20, the son of one of the brothers, Lin Zhentian, was seriously wounded and died later at the hospital.

The six who were injured, including a 13-year-old boy, are males and residents of Jingzhou. The oldest person wounded was Lin Yuxi, 55.

According to a statement from the Raoping public security bureau, the police are going all-out to hunt down the suspect and urged residents and witnesses to tip off the police as to the suspect's whereabouts.

Police said they would not reveal the identity of anyone who provides

information.

A task force has been set up to investigate the case, the statement said.