



GEM Systems Advanced Magnetometers
52 West Beaver Creek Road West, Suite 14
Richmond Hill, ON Canada L4B 1L9
Ph. 905-764-8008 Fax. 905-764-2949
info@gemsys.ca www.gemsys.ca

Richmond Hill, Ontario. December 1, 2004. China Earthquake Administration Purchases Advanced Magnetic Systems for Multidisciplinary Earthquake Research and Disaster Mitigation.

GEM Advanced Magnetometers is pleased to announce the signing of an agreement to supply magnetometers for China's comprehensive network of telemetered data acquisition stations for earthquake monitoring. The network comprises 28 seismic stations with complementary instrumentation, including magnetic technologies.

"The implementation of GEM's technologies establishes the company as the de facto standard in Chinese Earthquake applications for today and tomorrow", remarked Dr. Ivan Hrvoic, GEM President. "Magnetic methods have played a role in earthquake studies for decades and we anticipate that the new instrumentation will generate significant results and potentially help in alerting civilians to the presence of danger."

China is an earthquake-prone country and its people have suffered immensely from earthquakes throughout the nation's history with the first earthquake records dating from 3000 years ago. Since the founding of the People's Republic of China, the government has paid great attention to disasters posed by earthquakes. Earthquake monitoring, prediction and disaster prevention efforts in many areas were intensified after the 1966 Xingtai earthquake.

The State Council established a lead group on earthquake issues, which, in 1971, became the State Seismological Bureau (SSB). In 1998, the name of the bureau was changed to China Seismological Bureau (CSB). In 2004, the China Seismological Bureau (CSB) was renamed the China Earthquake Administration (CEA) – signalling that the organization is extending activities to the whole spectrum of earthquakes with the vision of reducing the impacts effectively.

The purchase of 28 GEM EUROMAG stationary magnetometers (GSM-90F1) by the CEA reflects this interdisciplinary focus. The EUROMAG is a specialized version of GEM's leading Overhauser magnetometer series – providing 1 second data in digital format for analysis and interpretation. The system was chosen due to its high absolute accuracy, long term stability, reputation among magnetic observatories and the service provided to its customers.



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The Chinese Earthquake Administration will integrate the 28 new magnetometer systems from GEM with other instruments, including seismic networks, geoelectric instruments, gravity meters, and others. The end result should be significantly improved multidisciplinary datasets that can assist significantly in earthquake monitoring and prediction with the ultimate goal of mitigating earthquake disasters, and loss-of-life and property.

GEM Advanced Magnetometers (www.gemsys.ca) is a proven supplier of magnetometers, gradiometers, and magnetic sensors for Earth Science, Geophysics and other applications. With more than two decades in magnetometer, gradiometer and magnetic sensor research and development, GEM is also known for its service and support – featuring knowledgeable magnetics professionals and the industry-leading two-year warranty program.

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