

This seminar is free of charge.  
Online registration  
<http://goo.gl/HGKwPH>

For further information,  
please contact Ms. Snow Deng,  
Email: [ascehk@ust.hk](mailto:ascehk@ust.hk)

The attendance certificate will  
be provided for registered  
attendees

# CALIFORNIA HIGH-SPEED RAIL Subsidence Study

**Dr. Chin Man “Bill” Mok, Fellow ASCE**

*Vice President and Principal Engineer  
GSI Environmental Inc., Oakland, California*

**Date: September 22, 2017 (Friday)**

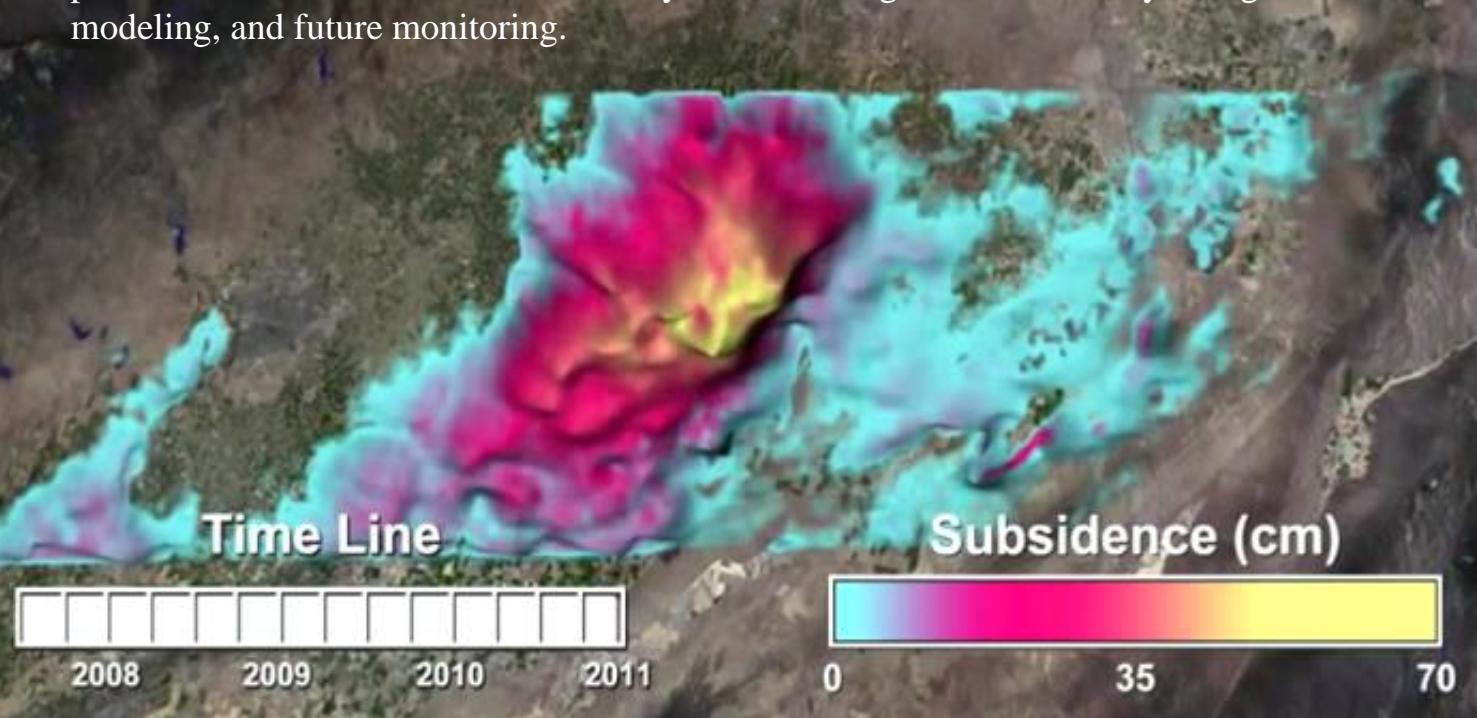
**Time: 18:30 – 19:30**

**Venue: N001, Hong Kong Polytechnic University**

The proposed California High-Speed Rail (HSR) system between San Francisco and Los Angeles will pass through several large-scale ground subsidence bowls. Due to significant increase in groundwater extraction from the highly compressible deep aquifer during the recent drought, subsidence has been accelerating. The latest subsidence rate has exceeded 20 inches per year, which is among the fastest in the world. Potential impacts of subsidence on infrastructures include induced ground fissures, compaction faults, slope, horizontal and vertical curvatures, twist, differential subsidence, floodplains and site drainage. Designing and contracting under the condition of changing ground elevation is a challenge. A subsidence study we recently completed to evaluate the potential impacts on future HSR infrastructure and train performance will be presented in this seminar. Topics covered will include available historical subsidence and ground surface topography information, prediction of future subsidence, stability assessment, geomechanical, hydrologic, and flood modeling, and future monitoring.



Dr. Mok is a vice president of GSI Environmental Inc and an adjunct professor at several universities. He obtained his B.Sc.(Eng.) from HKU and his M.S./Ph.D. from the University of California at Berkeley. He is a Professional Engineer and Geologist with over 30 years of experience internationally. He has directed many special studies and research supporting complex transportation, water resources, and environmental projects. In addition, he has been teaching courses in academia. He is a board-certified Water Resources Engineer and Geotechnical Engineer; ASCE Fellow and EWRI Fellow; and a Rudolf Diesel Fellow of the Technical University of Munich.



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