

The 2009 Terzaghi Lecture

Uncertain Geotechnical Truth and Cost-Effective High-Rise Foundation Design

The essential requirements for the design of foundations for the world's tallest buildings, from a geotechnical perspective are presented. The basic types of foundation, special in-situ testing, and load testing techniques commonly used, and several key principles to remember including the need for close structural engineering and geotechnical engineer cooperation are discussed.

Clyde Baker will outline two recent international case studies which he has been involved in to illustrate some of these elements. As an additional feature, the experience of gradually increasing allowable bearing pressures in a given geology over a sufficient time span to observed performance is also presented using Clyde's Chicago high-rise experience.



Australian Geomechanics Society



New Zealand Geotechnical Society

Clyde Baker's Eminent Speaker tour of Australia and New Zealand has been sponsored by the Australian Geomechanics Society and the New Zealand Geotechnical Society.



Clyde Baker

Senior Principal Engineer, AECOM

The 2009 Terzaghi Lecturer, Clyde Baker

According to American Society of Civil Engineers (ASCE) Geo Institute, Clyde Baker was selected as the 2009 Terzaghi Lecturer in recognition of his significant contributions in the design, analysis and construction of deep foundations for high-rise structures around the world:

Over the past 55 years Clyde N. Baker, Jr. has served as the geotechnical engineer on the major portion of high rise construction built in Chicago. He has also served as geotechnical engineer or consultant on eight of the twenty tallest buildings in the world including the four tallest in Chicago (Sears, Trump, Hancock, and Amoco) and the current tallest buildings in the world, the Petronas Towers in Kuala Lumpur, Malaysia, 101 Financial Center in Taipei, Taiwan and Burj Dubai in Dubai.

He is currently working as a consultant on several super tall buildings currently under construction including the Spire in Chicago, Doha Convention Center and Tower in Qatar and Incheon 151 in Incheon, Korea.

AECOM is a global provider of consultancy services to a broad range of markets, including transportation, buildings, water, community, mining, environment and energy. AECOM has over 700 geotechnical specialists world wide.

Friday 6 November
4 to 5:30pm
Chapman Hall,
11 Bagot Street
North Adelaide