

Brief Biography of Mr Zhang Xihu

Education and Training

- 1) M.Eng in geotechnical engineering, Nanyang Technological University, 1999--2001
- 2) B.Eng. in engineering geology and hydrogeology, Chang'an University (formerly Xi'an College of Geology), China, 1986--1990
- 3) Short course on engineering geology, rock mechanics and tunnelling, Profs Wulf Schubert and Kurt Klima, Graz University of Technology, Austria, 2007
- 4) Short course on engineering geology and hydraulic in rock tunnelling by Dr. Nick Barton, NBA (Oslo, Sao Paulo) and Dr. Eda de Quadros, IPT (Sao Paulo), 2000
- 5) Short course on contractual claim and counter-claim due to unforeseen geological conditions using FIDIC Conditions of Contract, 1997

Professional Affiliation

- 1) Committee member for the Society for Rock Mechanics & Engineering Geology (Singapore), affiliated to international societies ISRM and IAEG since 2006
- 2) Geological engineer registered in Shanxi Provincial Committee of Professional Engineers in 1995

Professional Expertise in Major Underground Civil Works

- 1) Planning, scheduling, organising and carrying out engineering geological/hydrogeological investigation program and geotechnical site characterisation, such as engineering geological mapping, in-situ and laboratory tests, borehole drilling and coring, geophysical survey
- 2) Establishment of 3D engineering geological model, interpretation and assessment of engineering geological/hydrogeological/geotechnical conditions, tectonic and seismic assessment
- 3) Assessment on rock mass quality and ground conditions
- 4) Geotechnical instrumentation and monitoring
- 5) Geotechnical risk assessment and environmental impact assessment due to underground excavation
- 6) Prefeasibility study, feasibility study and concept design
- 7) Preparation of tendering technical specifications and BOQ, and engineering procurement
- 8) Construction supervision, geo-related counter-claim and project management

Major Employment

- 1) 2009 to 2010 Trittech Engineering and Testing Pte Ltd, Director of Projects
- 2) 2006 to 2009 Trittech Consultants Pte Ltd, Singapore, Principal Engineer
SINTEF-Trittech-Multiconsult Consortium, site team leader cum engineering geologist
- 3) 2004 to 2006 SembCorp Engineers and Constructors Pte Ltd, Singapore, Senior Geotechnical engineer,
- 4) 2002 to 2004 Nanyang Technological University, Underground Technology and Rock Engineering group, project officer
- 5) 2001 to 2002 Gammon Pte Ltd, Project Engineer
- 6) 1990 to 1999 Shanxi Investigation, Design & Research Institute, Ministry of Water Resources, China, engineering geologist