

Baynes Geologic Pty Ltd ABN: 50 074 950 548 [www.baynesgeologic.com.au](http://www.baynesgeologic.com.au)  
"Pineview", 138 Malmsbury Post Office Road, PO Box 164, Malmsbury, Victoria, 3446, Australia  
Tel +61 (0)35 423 2548 Mob +61 (0)40 002 3381 email [fredb@inet.net.au](mailto:fredb@inet.net.au)

## **FRED BAYNES - CURRICULUM VITAE**

**DATE OF BIRTH:** 9 August 1953

**NATIONALITY:** Australian, British

**LANGUAGES:** English (mother tongue), Spanish (basic)



### **QUALIFICATIONS:**

Bachelor of Science (Honours) Geology, Bristol University, UK 1974.  
Master of Science, Engineering Geology, Imperial College, London, UK 1975  
Diploma of Imperial College, Engineering Geology, London, UK 1975  
Doctor of Philosophy, Newcastle University UK 1978, - "Engineering Characterization of Weathered Rock".

### **PROFESSIONAL AFFILIATIONS:**

President, International Association for Engineering Geology and the Environment, 2007 - 2010.  
Chartered Professional Geologist and Fellow, Geological Society of London.  
Chartered Professional Engineer and MIEAust.  
Member, Geological Society of Australia.  
Member, Australian Geomechanics Society.  
Member, International Association for Engineering Geology and the Environment.  
Member, Association of Environmental & Engineering Geologists, USA.

### **COUNTRIES OF WORK EXPERIENCE:**

Algeria, Australia, Georgia, Guinea, Hong Kong, Indonesia, Laos, Malaysia, Papua New Guinea, Philippines, Tanzania, India, Japan, Russia, United Kingdom.

### **AREAS OF SPECIAL EXPERTISE:**

Engineering geology, geological mapping, interpretation and geological model generation, site investigation and characterization, geomorphology and air photo studies, structural geology, neotectonics, rockfalls and landslides, karst, slope stability, soil and rock mechanics, geotechnical risk studies, dams, hydro power, underground works, quarries, heavy civil and mining projects, offshore projects, expert review, provision of expert opinion.

## **PROFESSIONAL EXPERIENCE:**

### **1996 to date Consulting Engineering Geologist, Australia.**

Involved in a wide variety of projects throughout the world as an expert engineering geologist, including review of major civil, mining and oil and gas projects, specialist advice on investigation, design and construction, and various research programmes. Projects include: expert review of hydro-power scheme for World Bank, offshore oil and gas infrastructure, investigations for pipelines and processing plants, regional landslide risk assessments, assessment of recent fault history, development of landslide risk management systems, rockfall barrier design, railway investigation design and construction, tailings dam investigations, construction materials, quarry assessments, underground works etc.

### **1994 - 1996 Principal Engineering Geologist, Golders, Perth, Australia**

Engineering geological studies of mining and civil projects throughout Australia and overseas, including: open pit stability, mine feasibility assessments, rock slope investigation and design, underground works, dams, foundations, roads, rockfalls, landslides, risk studies, etc.

### **1990 - 1994 Consulting Engineering Geologist, Hobart, Australia**

Expert review of hydro-power scheme for World Bank, assessment of mine in karstic limestone in World Heritage area, management of a large suburban landslide, investigation of mini-hydro sites, studies of coastal geomorphology, geomorphological analysis of road routes, mine shaft location, assessment of stability and impact of landfills etc.

### **1986 - 1990 Chief Geologist, Hydro Electric Commission, Hobart, Australia**

Responsible for all aspects of the management and technical supervision of eight professional and seven sub-professional staff involved in the design and construction of two hydro-power schemes, the investigation of several hydro-power schemes, the maintenance of an extensive hydro-power system, and the provision of commercial consulting services.

### **1982 - 1986 Resident Geologist, HEC, Queenstown, Australia**

Responsible on site for six staff involved in site investigation and construction supervision of two hydro-power developments including various major dams, underground works, surface works, roads, quarries, etc.

### **1980 - 1982 Senior Engineering Geologist, Coffeys, Sydney , Australia**

Investigations of slope stability, foundations, groundwater, construction materials, landslides, coastal geomorphology, secondment to Dams Safety Committee.

### **1977 - 1980 Engineering Geologist, Wimpey Laboratories, London, UK**

Investigations of land and marine foundations, landslides affecting road routes in mining areas, rock slope stability etc.