

# Gyan N Pande

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## ***Current position***

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Professor of Civil Engineering

## ***Education***

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B. Tech. (1st class honours, 1959), Ph.D. (Wales), D.Sc. (Wales), C. Eng., FICE.

## ***Research interests***

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Applications of the finite element method in geotechnical engineering, offshore engineering, structural masonry, composite materials, constitutive models of engineering materials, biomechanics and biomedical engineering, computational mechanics, applications of artificial intelligence in engineering sciences and medical diagnostics, self-learning finite elements.

## ***Research interests***

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Applications of the finite element method in geotechnical engineering, offshore engineering, structural masonry, composite materials, constitutive models of engineering materials, biomechanics and biomedical engineering, computational mechanics, applications of artificial intelligence in engineering sciences and medical diagnostics, self-learning finite elements.

## ***Career***

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Construction of tunnels and powerhouses -3 years  
Design of dams and appurtenant structure – 7 years  
Teaching & research – 30 years

## ***Honors and awards***

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Significant paper award of IACMAG, 2001  
Significant paper award of IACMAG, 2002  
Best paper award – Journal of Rock  
Mechanics & Tunnelling Technology, 2003  
Manby Prize, Institution of Civil Engineers, London, 2005

## ***Professional activities***

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Chief Editor of Computers & Geotechnics - an international journal published bimonthly by Elsevier Science, Oxford & Rotterdam 1985.  
Member of the Advisory Panel of Geotechnique, the primary UK journal of the Institution of Civil Engineers on geomechanics & geotechnical engineering.  
Chairman, Ground Engineering Group of the Institution of Civil Engineers, Wales Branch, 2004 - present.  
Chairman of the International Committee on 'Computer Modelling of Masonry' set up by the RILEM (International Union of Testing and Research Laboratories for Materials & Structures), Cachan, France (1996- present).  
Chief Organiser of a series of International conferences held in the past at Zurich (1982), Ghent, Belgium (1986), Niagara Falls, Canada (1989), Swansea (1992), Davos, Switzerland (1995), Montreal, Canada (1997), Graz, Austria (1999), Rome, Italy (2002) and Ottawa, Canada (2004).  
Member of an expert committee appointed by Hydro-Quebec, Canada to advise on restoration of a powerhouse structure (2004). The other two members were from the USA.  
Regular reviewer of papers for various international journals, grant proposals from the research councils in Australia, Hong Kong, Italy, Canada and the USA. Ph D thesis examiner for various Universities in the UK including Cambridge and Oxford and various universities abroad.  
Keynote speaker at a large number of international conferences and member of the editorial boards of international journals.

## ***Refereed papers and chapters in books***

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Over 50

### ***Selected publications (max. 5)***

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Beilin, V., Ito, K., Pande, G. N. , The effect of roughness on biological stimuli at the bone cartilage interface Journal of Biomechanics, Vol. 36, pp 1381-85, 2003.

Shin, H.S. & Pande, G. N., Identification of elastic constants for orthotropic materials from a structural test, Computers & Geotechnics, Elsevier Science, Vol 30, pp 571-77, 2003.

De Gennaro, V., Pande, G. N. and Lerat, P. , Stability problems in soil-structure interfaces: experimental observations & numerical study' The International Journal of Geomechanics, volume 2, number 2, 175-203, 2002.

S. Pietruszczak, G. N. Pande and Oulapur, M., A hypothesis for mitigation of risk of liquefaction, Geotechnique, 53, no. 9, pp. 833-38, 2003.

Pande, G. N. & Shin, H-S, Artificial Intelligence v. Equations, Civil Engineering, Proc. Institution of Civil Engineers, London, vol. 157, Issue 1, February 2004, pp 39-42.

### ***Other relevant information***

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