



Individual Membership Form

Personal information

Title: Dr.

Gender: (M/F) M

Name: AO Peng-Kong

Suffix: ---

Date of birth: 1958/06/22

Nationality: Macau SAR

Mailing address (Street or Postal Box): No. 30, Rua da Se LECM

City: Macau SAR

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Current affiliation: Civil Engineering Laboratory of Macau

Job title: President

Education Background

Highest degree received: PhD

Received from: University of Macau

Major: Geotechnical Engineering

Professional background

Professional background relevant to GEOSNet:

As below

Main reasons for your interest in GEOSNet and potential contributions to the network:

I will like to obtain the latest information via GEOSNet in geotechnical standards and regulations since Macau is go to revise the existing foundation codes and soil retaining structure codes.

I will like to build up certain connection of GEOSNet in Macau geotechnical society.

Profession Background

My professional career started in 1982 when I worked as a civil engineer in SOMEK CONSULT supervising public works under the company consultancy. In 1988, I worked as an engineering technician in Laboratório de Engenharia Civil de Macau (LECM), a civil engineering research and consultant institution founded by the Macau government and the National Civil Engineering Laboratory (LNEC) of Portugal. (<http://www.lnec.pt/>) In 1991, I was promoted to be Head of the Foundation Division, and later in 1992 Head of the Geotechnical Department. The Macau SAR Government nominated me as a Broad Director of LECM in 2000, and the President of the Board of Directors in 2003, succeeding to the previous Presidency from LNEC.

Throughout the many years in the field of civil engineering, I have contributed in many major public and private construction projects in Macau, in the capacities of designer, quality controller and/or technical adviser. Major projects I have taken part in include the Macau International Airport, the Friendship Bridge, the Lotus Bridge, the Saiwan Bridge, the Macau Incineration Plant I & II, the Waste Water Treatment Plants, the Guia Tunnel, the Macau Dome, the Taipa Stadium and the Olympic swimming pool. I also have been responsible for the design and supervision of several reclamation and soil improvement works.

Since taking over the presidency of LECM, my work is not limited to those involved in geotechnology but many other disciplines in engineering and in management. I am involved in organizing international civil engineering conferences to be held in Macau and/or other jurisdictions, e.g. The International Conference of Ground Improvement Technique, The International Conference of Deep Foundation Practice + Piletalk, and The Symposium in Sustainable development – The Cooperation of Guangdong, Hong Kong and Macau etc., besides having organized and chaired a number of technical seminars on the construction industry in Macau.

My major research interest is geotechnical engineering, mainly in deep excavation and pile dynamics. I have successfully introduced and brought in the ground monitoring and pile dynamics test equipment into LECM. For this and others, I published several technical papers in a number of national and international conferences and journals. My original research in using one-dimensional wave equation to improve prediction of conventional piling formula has been selected by the national conference, and I have also used this topic for my attainment of a Doctorate degree from University of Macau.

In addition to technical activities, I am widely included in various social activities in Macau and in China and have been elected as board member or president of many organizations. I acted in the presidency of the Macau Institution of Engineers for more than a decade. (<http://www.aem.org.mo>)