

Geoffrey A. Piggott, BSc(Eng), MEngSc, FIEAust, Reg PE, ExecEng, IntlEng, APECEng, MAICD

Geoff obtained his Master's Degree and Bachelors in Civil Engineering with Merit from the University of New South Wales. His long and distinguished engineering career commenced in 1971 as a cadet with Sydney Water and has progressed into senior executive management positions in Australia and around the globe. Geoff has developed his skills as a sought-after advisor and Programme/Project Director to Government Agencies and Company Boards in the area of urban and rural infrastructure and its importance to overall planning.

In 1980 Geoff's technical skills earned him a highly coveted Confederation of British Industry (CBI) Scholarship, resulting in a two-year placement with Binnie and Partners Consulting Engineers in London. This gave him the opportunity to work on complex projects and marked the start of his international working exposure.

Back in Australia with Sydney Water, Geoff worked on both the design and construction of water and sewerage infrastructure for Western and South-Western Sydney and the Sydney Deepwater Sewage Outfalls Project. He was promoted to roles of ever-increasing responsibility. He was the Regional Operations Manager for two of Sydney's largest wastewater treatment plants, managing more than 80 staff to operate and maintain plants that serviced 2.5million people.

In the mid 1980s, Geoff accepted a position with Binnie & Partners, initially as a Resident Manager with responsibility for the planning, design and construction supervision of a number of sewerage, water supply, drainage and pollution control infrastructure projects in Brunei, together with providing consultant advice and support to the Singapore and Kuala Lumpur operations. Geoff's next assignment was to Shanghai, China as a Senior Project Engineer on the S\$500 million World Bank funded Shanghai Sewerage Stage 1 Project, for the planning and design of the initial Phase 1 sewerage collection, conveyance, treatment and disposal system for the city's 14 million people. He was subsequently posted to the Melbourne, Sydney and Brunei offices where as Principal Engineer he undertook a variety of projects.

In 1989 Geoff was appointed a Partner of Binnie and Partners Singapore. As Partner and subsequently Managing Partner, Geoff built the Singapore office into a fully functioning, multi-disciplinary Singapore PE Board registered operation, with some 150 staff. When Binnie and Partners merged globally with Black & Veatch in 1995; Geoff was appointed Managing Director and subsequently Chairman, with a broader regional role across Southeast Asia. During the period 1989 to 1999, Geoff was responsible as Project Director and



INFRASTRUCTURE
CONSULTANT,
PROJECT DIRECTOR
AND ADVISOR.

Expertise:
Leadership, managerial skills, coupled with extensive technical and commercial knowledge of urban and rural infrastructure planning, design and construction. Advice to Government Agencies, Boards, Community Groups in the planning, prioritization and bankability of major infrastructure projects.

Education

- MEngSc Environmental (Public Health/Environmental) Engineering), University of NSW, Australia, 1985
- BSc Eng Civil, University of NSW, Australia, 1976
- Confederation of British Industry Scholar, 1980

Professional Registrations

- Chartered Professional Engineer, Australia
- Chartered Professional Engineer (International)
- Member Australian Institute of Company Directors

Superintending Officer for a number of significant infrastructure projects in Singapore and South-East Asia including:

- Upgrading and Extension of the Kranji Sewage Treatment Works in Singapore for the then Ministry of Environment (ENV). S\$300 Million
- Stages 3, 4 and 5 of the Johore River Waterworks, Malaysia for PUB Singapore that increased the plant's capacity to 1200MLd, using then state of the art water treatment technologies. To this day, the plant still provides the base load water supply to Singapore's 6 Million residents. S\$300 Million.
- Linggui Dam (Environmental Aspects) in Johore, Malaysia for PUB, a critical component of Singapore's water supply from Johore. S\$300 Million
- Sentosa Cove Development Site Reclamation and Infrastructure, Singapore for Sentosa Development Corporation. S\$60 Million.
- The new greenfield Singapore-Suzhou Industrial Township, China Water Supply and Wastewater Infrastructure for the China Singapore Suzhou Development Company.

In 1999-2000, Geoff was appointed Managing Director of Black & Veatch Australia and was tasked with establishing Black & Veatch's Engineer-Procure-Construct (EPC) water/wastewater business in Australia. This included the establishment of an office in Sydney and the winning of the first EPC Project for the Water Corporation of Western Australia. The Wanneroo Groundwater Treatment Project was the first plant to utilise advanced magnetic ion exchange (MIEX) water treatment technology.

In late 2000, Geoff was invited to join the URS (now AECOM) engineering company as their Regional Manager NSW and ACT in Australia and also a Director of Singapore operations and Consultant to China operations. In this Sydney based role, Geoff was responsible for the operations and management of the diverse consulting business including infrastructure engineering projects including the Barren Box Swamp Project for Murrumbidgee Irrigation, the Bank's Engineer for the Lane Cove Tunnel, the planning and design of the upgrading of the Great Western Highway and Camden Valley Way for the then RTA; environmental science; defense technology; and finance and economics projects including projects related to the privatization of Sydney Airport and a study into the commercialization and expansion on Bankstown Airport.

In early 2007 Geoff was invited to join Keppel Seghers, a subsidiary of the major Singapore listed company Keppel Corporation as Major Projects Director. He was posted to Qatar as Project Director for the Qatar Integrated Solid Wastes Management Project with overall responsibility as the Main Contractor for the EPC delivery of this S\$2 billion project from the initial planning through detailed design, procurement, construction, commissioning and operation. The project included four waste transfer stations, a 2300T/d waste to energy plant, separation and recycling plant and composting plant.

Geoff then took up the role of Regional Manager Middle East and North Africa for the same Singapore based company, continuing to be based in Qatar. He also acted as Project Advisor for the S\$3 billion Doha North Sewage Treatment Plant Project. This 430,000 cubic metres per day plant was the largest greenfield wastewater treatment, water reuse and sludge treatment plant in the Middle East at the time, and became operational in 2014.

Mid-2014 marked the return of Geoff to Singapore. He was appointed Project Director by Black & Veatch (now Binnies) in joint venture with AECOM for the Programme Management of the Singapore Deep Tunnel Sewerage System Phase 2 (DTSS2) for PUB. The S\$6.5 billion, 10 year programme is one of the largest infrastructure projects ever undertaken in Singapore. Geoff managed the successful completion of the DTSS2 Planning, Feasibility Studies, Preliminary Design, Costing, Ministry of Finance Budget Gateways, Value Management, Cabinet and Environmental approvals. He also oversaw the tendering and award of multiple DTSS2 contracts, including five Tunnel Contracts (utilizing 19 Tunnel Boring Machines) with a total value of S\$2.5 Billion and Consultancy Services Design Contracts for the Link Sewers and the Tuas Water Reclamation Plant (TWRP).

In November 2017, the same joint venture was appointed by NEA as the Owner's Engineer (OE) for the DTSS2 sister project, the Integrated Waste Management Facility (IWWMF), at Tuas. This S\$3.8 billion project will be one of the world's largest and most advanced Waste Management Plants and will process four different waste streams. Co-located with the TWRP, it will share synergies between the two plants - the first time that this has been done anywhere in the world from the ground up. In addition to his Project Director role, he assisted in the co-ordination of both projects under the Ministry of Environment and Water Resources "Tuas Nexus" initiative.

Following relocation to Sydney in early 2020, Geoff stepped down as Project Director of the IWWMF in September 2020 and remains Project Adviser on the IWWMF. Geoff currently also provides consultancy advice on infrastructure projects in Australia including a private sector water project in NSW. Geoff also provides consultancy advice on environmental infrastructure projects in Hong Kong.

Geoff also undertakes voluntary services as part-time COO of the NFP Australian Motor Heritage Foundation.

Geoff also has acted as in both factual and expert witness roles in international contract mediation and arbitration cases.