

CPP History

Modern wind engineering began in the 1950s with the work of Dr. Jack Cermak, his colleagues, and students. As a professor and researcher at Colorado State University, Dr. Cermak pioneered now-standard methods of modelling and testing pollutant dispersion and the effects of wind on buildings and structures. In 1964, his laboratory tested the design of the World Trade Center Twin Towers in New York City, bringing wind engineering to the attention of architects and engineers around the world.

In 1981, Dr. Cermak and Dr. Jon Peterka co-founded America's first commercial wind engineering company. Three years later, Dr. Ron Petersen joined and the company was renamed Cermak Peterka Petersen (CPP). Since its founding, CPP has been lead by the most experienced wind engineers in the world.

CPP provides its full range of wind engineering services to clients around the world. Now, with leading experts located in Australia and the United States, CPP's expertise is even more accessible and convenient.

CPP's Services

- Wind tunnel testing for cladding and structural loads
- Pedestrian-level wind testing and mitigation
- Computer simulations for design comparisons, indoor airflows, and smoke management
- Natural ventilation assessment and consulting for improved ESD compliance and building amenity
- Exhaust dispersion, exhaust/intake design
- Wind turbine performance testing and siting



Matthew Glanville, PhD
Director

Matt is a founding director of CPP's Sydney office. Matt holds a PhD in wind engineering and undertook postgraduate studies at the University of Sydney and Monash University, which lead to 10 international publications on the topics of wind tunnel testing, full-scale wind measurement, and computational fluid dynamics (CFD).

Over the last 10 years Matt has managed over 500 commercial projects throughout Australia, SE Asia, and the Middle East in the fields of wind engineering and ecologically sustainable development (ESD), building energy rating, solar studies, structural dynamics, and building acoustics. His domestic building industry experience includes numerous Sydney 2000 Olympics projects, Carlton United Brewery site redevelopment, Westfield Bondi Junction, Chatswood Transport Interchange, Suncorp Tower Brisbane, Adelaide Airport, and Convention Centre. Matt's international projects include the Regent Tower in Kuala Lumpur, Bangkok Airport Control Tower, Burj Dubai Residences, and Dubai Health Care Towers.

Matt regularly presents at industry workshops and conferences and provides expert testimony at the Land and Environment Court in his areas of expertise. He is a longtime member of the Australasian Wind Engineering Society, a member of the Australian Wind Energy Association, and an Expert Panel Member of the Association of Building Sustainable Assessors.

For more than 25 years, design professionals have relied on CPP's wind engineering expertise to enhance the sustainability, comfort, and efficiency of building designs. Now, CPP has facilities in Sydney to better serve our clients in Australasia, Asia, and the Middle East.

Graeme Wood, PhD
Director

Graeme, founding director of CPP's Sydney office, was educated at the University of Edinburgh. Prior to joining CPP, he was a Senior Lecturer at the University of Sydney.

Over the last 10 years he has conducted numerous consultancy and research projects spanning many areas of wind engineering. His research areas include the distribution of wind loads on large span structures, full-scale dynamic measurements and wind induced dynamic response of tall buildings, thunderstorm winds, and development of wind turbines. Graeme has performed consultancy services throughout Australasia, Asia, and the Middle East. He has completed model tests for pedestrian level wind environments, cladding pressures, base balance, aeroelastic, and snow drift modelling. Full-scale tests include the measurement of wind speed behind aircraft and helicopters, air flows in airport terminals, and dynamic measurements of over 50 architectural spires and tall buildings up to 300 m. Commercial large roof projects include Stadium Australia, Sydney SuperDome, the Dunc Gray Velodrome for the Sydney 2000 Olympics, Zhengzhou International Conference Centre, and Sydney Cricket Ground.

Graeme is a Member of the Institution of Engineers, Australia, Treasurer of the Australasian Wind Engineering Society, sits on the Standards Australia committee for structural wind actions, and is a member of the organizing committee for the 2007 International Conference on Wind Engineering.

