



澳大利亚阿德莱德大学Togay Ozbakkaloglu博士学术讲座



题目: Toward the development of sustainable composite structural systems

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报告简介

It is now widely recognized that the conventional construction practices need significant improvements to be able to deliver sustainable urban development. Recent research has shown that the environmental impact and carbon footprint of structures can be significantly reduced through the use of i) more eco-efficient construction materials and ii) better designed structural systems. This talk will focus on one of the most promising of these structural systems, the so-called concrete-filled fiber reinforced polymer (FRP) tube system, where the concrete is filled into a prefabricated FRP tube to form a composite member that maximizes the advantages offered by both materials. The behaviours of these composite members under different loading conditions will be presented. The development of next-generation high-performance, low-impact structural systems with eco-efficient, waste-based concretes including recycled aggregate concrete and geopolymer concrete will also be discussed.

报告人简介

Dr Togay Ozbakkaloglu received his PhD from the University of Ottawa, Canada in 2005. Dr Ozbakkaloglu's research focuses on the development of new technologies to improve reliability and performance of civil infrastructure. His specific expertise concerns the development and modelling of special concretes, including high-performance concretes and concretes prepared with waste materials, and fiber reinforced polymer (FRP)-concrete composite structural systems.

Dr Ozbakkaloglu has published over 150 peer-reviewed research papers, including 80 journal articles that appeared in the leading disciplinary journals and over 70 international conferences papers. In addition to being the Editor-in-Chief of the Journal of Recent Patents on Engineering, Dr Ozbakkaloglu is the Regional Editor for the Open Construction & Building Technology Journal and Associate Editor for the ASCE Journal of Structural Engineering and Australian Journal of Civil Engineering. He also serves on the Editorial Board of 10 international journals.

Dr Ozbakkaloglu regularly receives invitations to give keynote and invited lectures in international conferences, and he has served as an International Scientific Committee member for around 40 international conferences. He also serves as an invited reviewer for international funding bodies and over 60 SCI journals.

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