

2<sup>nd</sup> World Congress and Expo on

# Recycling

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### Case studies of recycled materials in pavements and footpaths

The increase in generation of waste from construction activities along with significant increase in global population has led to increasing focus and research on reuse of waste material. In this keynote presentation, applications of Construction and Demolition (C&D) materials in roads and footpaths based on research currently undertaken in Australia are discussed. Unbound and stabilized C&D materials have been evaluated by the presenter to assess their viability for reuse in pavement bases/subbases. C&D materials including Recycled Concrete Aggregate (RCA), Crushed Brick (CB), Reclaimed Asphalt Pavement (RAP), Fine Recycled Glass (FRG) and Waste Rock (WR) have been evaluated in the laboratory and new specifications successfully developed in Australia to incorporate their usage in pavements, footpaths and other civil engineering applications. In addition, several unique field case studies where C&D materials have been used in roads and footpaths in Australia will also be presented. In addition, current ongoing projects on some other traditional waste materials currently being researched by the presenter will be briefly discussed.

### Biography

Arul Arulrajah is a Professor of Geotechnical Engineering at Swinburne University of Technology, Melbourne, Australia. He is currently involved in research topics such as recycled materials in geotechnical applications, geotechnics of pavements, ground improvement, land reclamation and dredging. He is a fellow of the Institute of Engineers Australia (FIEAust) and a Chartered Professional Engineer (CPEng-Civil Engineering, NPER). His research on recycled materials has led to significant impact in terms of adoption of recycled materials in Australian roads and footpaths and has obtained continuous research funding in this field of research. He has published close to 2 books, 3 book chapters, 120 journal publications and 70 conference papers in Geotechnical Engineering and Recycled Materials.

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