# Crushed Recycled Concrete – An Under-utilised Resource

**A joint meeting sponsored by**   
**IPENZ Auckland Branch, Engineers for Social Responsibility and the Sustainability Society**

**Date and Time:** Wednesday 10 June, commencing at 5-30pm

**Venue:**  Room 403.403 School of Engineering , University of Auckland, 20 Symonds Street

Crushed Recycled Concrete is an important resource for roading and drainage. It is readily available in Auckland from a number of crushing plants in a selection of grading sizes. The principal speaker will be Dr Bryan Pidwerbesky from Fulton Hogan whose details and talk abstract are below. After Bryan has spoken, there will be short addresses from Andy Finch of Auckland Transport, Peter Ward of Ward Demolition, Graham Collie of Atlas Concrete, PhD Student, Nazanin Ardalan and Warren Snow of Envision NZ.

**Principal Speaker**   
Dr Bryan Pidwerbesky, FIPENZ, CPEng is General Manager – Technical, Fulton Hogan Ltd.

Bryan has 30 years’ experience in pavement engineering, materials, design, construction, maintenance and deterioration modelling. He joined Fulton Hogan in 2000 as Group Technical Manager and is now General Manager – Technical, responsible for the company’s technical strategy and managing Fulton Hogan’s internal research and design teams.  He previously held the positions of Chief Executive of the NZ Bitumen Contractors’ Association (1998-2000), and Senior Lecturer in Civil Engineering at the University of Canterbury during 1986-1998. His technical specialities are pavement and surfacing materials and design, asset management technology, and deterioration/ performance modelling. In recognition of Bryan’s specialist knowledge and expertise, he is member of numerous international and national committees, working parties and boards, including the AUSTROADS Pavement Task Force and the NZ National Pavements Technical Group.

**Abstract**

Dr Pidwerbesky has been designing pavements incorporating crushed recycled demolition concrete since 2004. His presentation will cover the engineering properties of crushed recycled concrete and his experience with it, focussing on two projects – the 100% Recycled Road constructed in 2005 and the Christchurch Southern Motorway (CSM) Stage 1, opened in 2012. The 100% Recycled Road was designed by Bryan and constructed for the Christchurch City Council; it consists entirely of recycled materials, with the subbase and basecourse comprised of recycled crushed demolition concrete. On the CSM Stage 1 project, Bryan was the lead pavement designer and worked with the construction team and NZTA to deliver a robust pavement that included recycled crushed demolition concrete (RCC) in the pavement.

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