IMIA Operator Algebra Seminar
University of Wollongong

Title: A groupoid generalisation of Leavitt path algebras

Speaker: Lisa Clark (University of Otago)

Time and Dates: 3:30pm Thursday, 26 July 2012

Location: Room 8.G25

Abstract: Given a directed graph E, I will review the construction of the *Leavitt path algebra* of E. Then, given a suitable groupoid G, I will describe the groupoid algebra $A(G)$ first defined by B. Steinberg in 2010. When G is the groupoid associated to a directed graph E, $A(G)$ is isomorphic to the Leavitt path algebra of E. I will then present versions of the Cuntz-Krieger and graded uniqueness theorems for $A(G)$ and talk about how $A(G)$ has proven useful in characterising simple groupoid C^*-algebras.

This is joint work with Jonathan Brown, Cynthia Farthing, Mark Tomforde, and Aidan Sims.