

**IMIA Operator Algebra Seminar**  
University of Wollongong

Title: Functoriality of Cuntz-Pimsner algebras

Speaker: John Quigg (Arizona State University)

Time and Dates: 3:30pm, Thursday July 21, 2011

Location: Room 19.1098

Abstract: We show that the passage from a  $C^*$ -correspondence to its Cuntz-Pimsner algebra is functorial for suitable categories involving multipliers. We illustrate our approach via connections with several recent results: a Morita equivalence between  $C^*(E/G)$  and  $C^*(E) \rtimes_r G$  when a locally compact group  $G$  acts freely and properly on a topological graph  $E$ , a decomposition of the  $C^*$ -algebra of a skew-product topological graph as a coaction-crossed product, and a result of Hao and Ng concerning crossed products by actions of an amenable group on a  $C^*$ -correspondence.

This is joint work with S. Kaliszewski and D. Robertson.