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 $C^*(E) times_r G$ 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.