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S. Kaliszewski*, kaliszewski@asu.edu, and **Magnus B. Landstad** and **John Quigg**. *Crossed Products and Coaction Functors*.

The new approach to the Baum-Connes Conjecture advanced by Baum, Guentner, and Willett leads naturally to the study of crossed-product operations as functors on certain categories of C^* -algebras. Buss, Echterhoff, and Willett have recently introduced and studied certain properties of crossed-product functors that are of particular significance.

In this talk I'll discuss these functors and their properties, and I'll present our analysis of crossed-product functors in terms of what we call "coaction functors". In particular, I'll show how crossed-product functors arise by composing the full crossed product functor with coaction functors, and I'll discuss how the properties of Buss-Echterhoff-Willett are inherited from analogous properties of the coaction functors. (Received September 12, 2017)