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Jan Cameron* (jacameron@vassar.edu), 124 Raymond Avenue, Poughkeepsie, NY 12604, and
Roger Smith. *A Galois correspondence for crossed products of C*-algebras by discrete groups.*

When a discrete group G acts by outer automorphisms on a unital C*-algebra A , any subgroup H of G will generate a C*-subalgebra $A \rtimes_{\alpha,r} H$ of the reduced crossed product $A \rtimes_{\alpha,r} G$ containing A . If these are all the C*-algebras between A and $A \rtimes_{\alpha,r} G$, we say that a Galois correspondence holds for the inclusion $A \subseteq A \rtimes_{\alpha,r} G$. For a simple, unital C*-algebra A , Galois correspondences have been established when the acting group G is abelian, by work of Landstad, Olesen, and Pedersen; and when G is finite, by Izumi. In this talk we discuss recent joint work with Roger Smith, in which we generalize these results to the case of an arbitrary discrete group G . (Received September 09, 2017)