1120-46-72   **S. Kaliszewski**, **Tron Omland** and **John Quigg*** (quigg@asu.edu), School of Math and Stat Sciences, Arizona State University, PO Box 871804, Tempe, AZ 85287-1804. *Generalized fixed-point algebras and a theorem of Pedersen.*

If an abelian locally compact group G acts on a C^*-algebra, an old theorem of Landstad shows how to recover the action up to isomorphism from the crossed product, using a generalized fixed-point algebra determined by the dual action (of the dual group $\widehat{G}$) and an equivariant embedding of $C_0(\widehat{G})$. Pedersen showed how, forgetting about $C_0(\widehat{G})$, one recovers the original action up to outer conjugacy. We parlay this into an equivalence between two equivariant categories of C^*-algebras, where the isomorphisms in one are given by outer conjugacies of actions of G, and in the other by generalized fixed-point algebras of actions of $\widehat{G}$. Somehow irritating, it seems difficult to find examples with different generalized fixed-point algebras (and consequently non-exterior equivalent actions of G), and we discuss various approaches to this problem. All of the preceding makes sense, and some of it has been proven, for nonabelian G, but we eschew opening that particular can of worms in this talk. (Received February 10, 2016)