A (finite) poset $P$ is simplicial if it has unique minimal element $\hat{0}$ and the property that for every $p \in P$, the interval $[\hat{0}, p]$ is a Boolean algebra. A simplicial poset is Buchsbaum if its order complex is Buchsbaum as a simplicial complex (as occurs, for example, when $P$ is the face poset of a simplicial cell decomposition of a manifold). Novik and Swartz gave a set of necessary conditions on the face vectors of Buchsbaum simplicial posets in terms of their Betti numbers, and conjectured that these conditions are also sufficient, and thus provide a complete characterization. In this talk we will present some partial progress towards this characterization, and discuss some crystallization techniques that may be of use. (Received September 20, 2012)