1086-47-2645 Craig Kleski\* (ckleski@virginia.edu). Extreme points of some noncommutative convex sets. Recent results on boundary representations for separable operator systems yield new information about extreme points for matrix convex sets associated to such operator systems. For a matrix convex set K, we introduce a new notion of extremeness for K that corresponds exactly to the boundary representations for the associated operator system A(K), when A(K) is in a matrix algebra. In this case, we can improve the Webster-Winkler Krein-Milman theorem. We also show how boundary representations are related to Morenz's Krein-Milman theorem for compact C\*-convex sets in  $M_n$ . (Received September 25, 2012)