

1145-VN-1560 **Trevor A. Leach*** (trevor.leach@louisville.edu), 328 Natural Science Building, University of Louisville, Louisville, KY 40292. *An axiomatic approach to aggregating individual preferences into a collective preference.*

In any social structure, there is often a need to reach decisions, not only within a group but between groups as well, sometimes even urgently so. Take for example emergency situations involving Police, Fire, EMS, and other first responders. Each of the individuals constituting these groups has their own preference for the decision to be made. We will discuss the problem of aggregating individual preferences into a collective preference and under what conditions we are required to select a collective majority. (Received September 23, 2018)