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**D. Marc Kilgour\*** (mkilgour@wlu.ca), MATH / LCMSDS, Wilfrid Laurier University, 75 University Avenue, Waterloo, ON N2L 3C5, Canada, and **Steven J. Brams** and **M. Remzi Sanver**. *How to Elect A Representative Committee using Approval Balloting.*

Approval balloting is applied to the problem of electing a representative committee. We demonstrate several procedures for determining a committee based on approval ballots, paying particular attention to weighting methods that can reduce the influence of voters with extreme views. We show that a general class of voting systems based on approval ballots can be implemented through analysis of appropriate tables. A by-product of this procedure is a clarification of the complexity of these systems. (Received September 11, 2007)