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**Jonathan Matthew Clark\*** ([jonathanmclark@charter.net](mailto:jonathanmclark@charter.net)), 2305 Georgetown Road Apt.  
#13, Cleveland, TN 37311. *An Application of A Generalized Parametrization of Conic Sections.*

Using linear algebraic techniques applied to parametric equations, we generate parametrizations for conic sections which explicitly allow us to connect the two-dimensional and three-dimensional definitions of conics. We analyze one of these parametrizations in order to show the validity of this technique and show its implicitization. We then use this to generate a focus-tracing curve which predicts the location of each focus on a conic whenever one is generated by planar intersections of cones. (Received September 22, 2014)