

Meeting: 1003, Atlanta, Georgia, MAA CP B1, MAA Session on My Favorite Demo: Innovative Strategies for Mathematics Instructors, I

1003-B1-512 **Melkana A Brakalova-Trevithick*** (brakalova@fordham.edu), Mathematics Dept, Fordham University, 441 East Fordham Road, Bronx, NY 10458. *A picture is worth a thousand explanations.*

This presentation will focus on the use of parameterized families of curves and surfaces to provide exciting animations of important concepts from Precalculus/ Calculus/ Multivariable Calculus. The presentation will include animations of inequalities, solids of revolutions, animations of cross sections, washers and shells, of tangent lines to 2D/3D curves and animations involving line integrals. This kind of visual presentations of sometimes hard to grasp concepts makes a big and lasting impact on the students and excites them about learning mathematics. (Received September 18, 2004)