

1023-H1-130 **Karl Schaffer*** (karl_schaffer@yahoo.com), De Anza College, 21250 Stevens Creek Blvd.,
Cupertino, CA. *Dancing with Mathematics*.

The presenter co-directs a dance company which has included mathematically-inspired dance concerts in its repertory since 1990. Mathematical problem-solving is usually involved in the creation of the dances, and sometimes leads to new mathematics as well. In many cases the choreographic ideas easily translate to classroom activities usable in college math classes. We will view several short video clips in order to get a sense of how mathematics and dance have been linked onstage, and show some of the classroom applications. Mathematical areas involved include polyhedral geometry, symmetry, the mathematics of rhythm, and variations on dissection puzzles such as tangrams. (Received August 07, 2006)