1086-K1-444 **Anne M. Burns*** (aburns@liu.edu), Department of Mathematics, Long Island University, C.W. Post Campus, Brookville, NY 11548. *Gaskets and Carpets From A(Apollonius) to Z(The complex plane).* Preliminary report.

From earliest times mathematicians and artists have been fascinated with the concepts of gaskets and carpets. Starting with a compact, simply connected set in the plane, open regions are removed recursively, leaving a fractal-like limit set that contains no open sets. This talk will focus on producing mathematical art using various methods of constructing gaskets and carpets: simple recursion, circle inversions, iterated Mobius Transformations and iteration of rational functions in the complex plane. (Received September 02, 2012)