

1014-N1-992      **Stephen J Luecking\*** (sluecking@cs.depaul.edu), 1934 West Bradley Place, Chicago, IL.

*Modular Sculpture from Surface Patches.*

These sculptures are constructed from modules of rubber sheet that are inspired by NURBS (non-uniform rational basis spline) geometry of the major 3D graphic programs. NURBS uses a patchwise surface assembly with principles of geometric continuity use to coordinate the patches into a single surface subject to certain topological manipulations. The sculptures presented here apply this patchwise concept to creating orientable, non-orientable surfaces, closed and opened surfaces. (Received September 26, 2005)