

1106-01-164 **Amy Shell-Gellasch***, 14500 Carrolton Rd, Rockville, MD 20853. *The Schilling Kinematic Models at the Smithsonian*. Preliminary report.

The National Museum of American History (NMAH) houses the Smithsonian's collections of mathematical, computing and computer objects. In my role as a volunteer researcher at NMAH, I research and prepare materials for the on-line collections. One such collection is the late 19th century kinematic models of the German firm of Martin Schilling. The Schilling models were constructed to mechanically produce mathematical curves of use primarily in engineering. Of particular mathematical interest are the linkages used to produce linear motion and the models that produce trochoids, of which the cycloid is the most famous member of the family. (Received August 04, 2014)