Flow of colloidal gels through constrictions JACINTA CONRAD, JENNIFER LEWIS, University of Illinois at Urbana-Champaign — We use confocal microscopy to investigate the flow behavior of colloidal gels through constrictions of varying geometry. We flow suspensions of attractive silica colloids through microchannels containing a single constriction point. As the colloid volume fraction is increased, the colloids in the microchannels jam and form a clog. Here we investigate the flow properties and the clogging as a function of applied pressure, microchannel geometry, and the colloid volume fraction.