

1116-VB-1091 **Austin Scirratt*** (ascirr1@lsu.edu), **Ladorian Latin** and **Frank Neubrander**. *Evolution Semigroups for Well-Posed, Non-Autonomous Evolution Families*. Preliminary report.

We characterize the existence of strongly continuous evolution families $U(t, s)$ in Banach spaces associated with linear initial value problems $u'(t) = A(t)u(t)$, $u(s) = x$, in terms of evolution semigroups $T(t)f(s) = f(t + s)U(t + s, s)$ and their generators $Af(s) = f'(s) + f(s)A(s)$. This is joint work with Ladorian Latin and Frank Neubrander and is based on previous work by Balint Farkas and Franziska Kuehnemund on bi-continuous semigroups. (Received September 16, 2015)