1035-47-974 **Peter Frempong-Mireku*** (pfmireku@yahoo.com), Division of Natural Sciences, Dillard University, 2601 Gentilly Boulevard, New Orleans, LA 70122, and **Haewon Lee** (mathhaewon@yahoo.com), Division of Natural Sciences, Dillard University, 2601 Gentilly Boulevard, New Orleans, LA 70122. *Stepanov-like Almost Automorphic Solutions for Nonlocal Cauchy Problems.* Preliminary report.

We consider the existence and uniqueness of an almost automorphic solution of a nonlocal Cauchy problem for a semilinear differential equation:

$$\begin{cases} u'(t) = Au(t) + f(t, u(t)), & t \ge 0, \\ u(0) = g(u), & \end{cases}$$

where A is the infinitesimal generator of a C_0 -semigroup T(t), $t \ge 0$, and f and g satisfy appropriate Lipschitz conditions. Our approach relies on the method of semigroups, the Banach Contraction mapping Principle and the concept of Stepanovlike almost automorphic function. (Received September 17, 2007)