1145-34-2441Darin Orrie Brindle\* (dabri8@morgan.edu), Morgan State University Department of Mathema,<br/>1700 East Cold Spring Lane, Baltimore, MD 21251. Existence results of S-asymptotically<br/> $\omega$ -periodic mild solutions to some integro-differential equations with non-local conditions.

In this talk, we are concerned with the existence of S-asymptotically  $\omega$ -periodic mild solutions to the semilinear integrodifferential equation  $u'(t) = Au(t) + \int_0^t B(t-s)u(s)ds + f(t,u(t)), t \ge 0$  with nonlocal condition  $u(0) = u_0 + g(u)$  in a general Banach space X. A and B(t) are densely defined, closed linear operators on X. In addition A is the generator of a resolvent operator family. We use the Krasnosel'skii fixed point theorem to prove our results. An application is given to illustrate our abstract results. (Received September 25, 2018)