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Sergiu Aizicovici (aizicovi@math.ohiou.edu), Department of Mathematics, Ohio University, Athens, OH, and Haewon Lee* (mathhaewon@yahoo.com), Division of Natural Sciences, Dillard University, 2601 Gentilly Boulevard, New Orleans, LA. Existence Results for Nonautonomous Evolution Equations with Nonlocal Initial Conditions. Preliminary report.

We establish the existence of integral solutions to nonlocal Cauchy problems associated with time-dependent m-accretive operators in a general Banach space. Our approach relies on the theory of evolution equations governed by time-dependent m-accretive operators, compactness methods and fixed point techniques. (Received September 25, 2006)