1046-34-910 **Valerie N. Nelson*** (vnelson75@gmail.com), Department of Mathematics, Carnegie 251, 1700 E. Cold Spring Lane, Baltimore, MD 21251, and **Gaston M. N'Guerekata** and **Khalil Ezzinbi**.

$C^{(n)}$-Almost Automorphic Solutions of Some Nonautonomous Differential Equations.

We are concerned with the existence of $C^{(n)}$-almost automorphic solutions of the equation $x'(t) = A(t)x(t) + f(t)$ where $A(t)$ is a τ-periodic operator and $f(t)$ is $C^{(n)}$-almost automorphic. We prove a Massera-type result for the nonautonomous case in C^k. We also show that every bounded mild solution is $C^{(n)}$-almost automorphic when $A(t) = A$ generates a quasi-compact semigroup of operators. (Received September 12, 2008)