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**Mouffak Benchohra** (benchohra@yahoo.com), Laboratoire de Mathematiques, Universite de Sidi Bel-Abbes, BP 89, 22000, Sidi Bel-Abbes, Algeria, **Naima Hamidi** (hamidi.naima@yahoo.fr), Laboratoire de Mathematiques, Universite de Sidi Bel-Abbes, BP 89, 22000, Sidi Bel-Abbes, Algeria, and **Johnny Henderson\*** (Johnny\_Henderson@baylor.edu), Department of Mathematics, Baylor University, Waco, TX 76798-7328. *Existence of solutions for fractional differential equations with anti-periodic boundary conditions.*

We are concerned with the existence of a class of Caputo fractional differential equations with anti-periodic boundary conditions. We give two results: the first is based on Banach's fixed point theorem and the second is based on Schauder's fixed point theorem. (Received July 11, 2011)