1067-35-1317   **Keng Deng*** (`deng@louisiana.edu`), Department of Mathematics, University of Louisiana at Lafayette, Lafayette, LA 70504, and **Zhihua Dong** (`zxd5200@louisiana.edu`), Department of Mathematics, University of Louisiana at Lafayette, Lafayette, LA 70504. *Blow-up for A Parabolic System with Nonlinear Memory.*

We consider nonnegative solutions of a parabolic system with nonlinear memory. We establish global existence and global nonexistence results. We also localize the blow-up points. (Received September 20, 2010)