1002-46-146   **P. N. Dowling**, **C. J. Lennard** and **B. Turett*** (`turett@oakland.edu`), Department of Mathematics and Statistics, Oakland University, Rochester, MI 48309-4485. *New fixed point free nonexpansive maps on weakly compact, convex subsets of $L^1[0,1]$.*

In 1981, D. Alspach gave the first example of a weakly compact, convex subset of a Banach space that fails the fixed point property for nonexpansive mappings. In this talk, a variation of Alspach's example is used to show that every subset of $L^1[0,1]$ that contains the (nontrivial) intersection of an order interval and finitely many hyperplanes fails to have the fixed point property for nonexpansive mappings. (Received September 13, 2004)