Manuel J Sanders* (mjsander@uscb.edu), University of South Carolina Beaufort, One University Blvd., Bluffton, SC 29909. An $n$-cell in $\mathbb{R}^{n+1}$ that is not the attractor of any IFS on $\mathbb{R}^{n+1}$.

Crovisier and Rams recently constructed an embedded Cantor set in $\mathbb{R}$ and showed that it could not be realized as an attractor of any iterated function system (IFS) using measure-theoretic properties. An example of a locally connected continuum in $\mathbb{R}^2$ which is not the attractor of any IFS on $\mathbb{R}^2$ is constructed in a work of Kwiecien. Kwiecien points out that a variation on his main construction provides an arc in $\mathbb{R}^2$ which is not the attractor of any IFS either. Here, for each $n \geq 1$, construction of an $n$-cell in $\mathbb{R}^{n+1}$ with the feature that this $n$-cell is not the attractor of any IFS on $\mathbb{R}^{n+1}$ will be described. (Received September 11, 2007)