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David Richeson and **Jim Wiseman*** (jwiseman@agnesscott.edu), Agnes Scott College, 141 E. College Ave., Decatur, GA 30030. *Symbolic dynamics for topological hyperbolic maps.*

We use Conley index theory and cocyclic subshifts to detect interesting symbolic dynamics in topologically hyperbolic systems. The methods also apply to expansive systems, with the Conley index serving as a substitute for the shadowing property, and can be generalized to numerical approximations. (Received September 15, 2008)