Nathan Gilbert Marculis* (ngmarculis@wpi.edu), Department of Mathematical Sciences, Stratton Hall, 100 Institute Road, Worcester, MA 01609. Integro-difference modeling for the invasion of Carcinus maenas (The European Green Crab). Preliminary report.

Carcinus maenas (European Green Crab) has been introduced to the east and west coasts of North America. It has spread to become an established invasive species and impacted resident species causing severe economic damage. This talk presents two integro-difference models; one for the spread of the crab and one to model the control of the crab by introducing Sacculina carcini (a castrating parasite). Under certain conditions, the parasite has been shown to be an effective biological control agent. (Received August 05, 2013)