

SE&T Colloquium Series-Fall 2015

Speaker	Dr. Dave Stanton Department of Biology
Title	<i>DNA Fingerprinting of Charity Island Phragmites (Phragmites australis)</i>
Abstract	<p>Phragmites australis is an invasive reed species that was introduced into the United States over one hundred years ago. Since then it has spread aggressive throughout the Great Lakes region, displacing native species and destroying wildlife habitat. It has already taken over the eastern shore of Saginaw Bay and is taking over the western coast as well. In addition, it has invaded Charity Island in the middle of Saginaw Bay and is dramatically affecting the tourist trade on the island. In partnership with Huron Pines, an eradication program is underway. Herbicide spraying on the island began this this fall and will likely continue to the next few years.</p> <p>In order to assess genetic variation, population substructure and the genetic effects of eradication efforts, a DNA fingerprinting survey was begun. Samples were taken from the surrounding populations on Saginaw Bay and extensive sampling of Charity Island was begun prior to herbicide treatment. The survey will be repeated next year in order to determine the susceptibility of particular clones to herbicide treatment. The data should also allow for the determination of modes of recruitment in post treatment populations. These results will have important implications for treatment strategies in this and other localities.</p>
Date	Tuesday, November 17
Time	4:10-5:00pm
Place	Pioneer 240
	Refreshments will be served at 4:00pm.