



# FROM SILENT SPRING TO SILENT NIGHT

Presented by Tyrone Hayes

Lawrence Technological University

2010 Walker L. Cisler Lecture

The annual Walker L. Cisler Lecture is dedicated to the improvement of science education



**Tyrone Hayes**

Professor of Developmental Endocrinology  
University of California, Berkeley

**Tuesday, March 30, 2010, 7:30 p.m.**

Dessert reception to follow

University Technology and Learning Center  
Lear Auditorium (T429)

The nighttime symphony of croaking frogs and toads is becoming a thing of the past and Tyrone Hayes, an internationally recognized biologist, knows why. His research on atrazine, a widely used pesticide found in groundwater, local streams, and ponds, has revealed that the product is a potent endocrine disrupter that chemically castrates and feminizes exposed male amphibians. Atrazine also causes neural damage and hyperactivity and induces a hormonal stress response that leads to retarded growth and immune suppression, resulting in increased disease and mortality rates. Furthermore, it has become clear that the adverse effects of atrazine extend beyond amphibians to mammals – including humans – causing prostate and breast cancer and decreased fertility.

Hayes received a BA from Harvard University and a PhD in integrative biology from the University of California, Berkeley. He has been featured on Minnesota Public Radio and in *National Geographic*, *Discover*, and *Harper's* magazines.

