

**IOWA STATE UNIVERSITY**

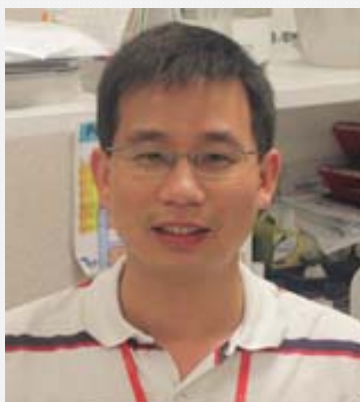
# **Materials Science & Engineering**

## **POLYMERS FACULTY CANDIDATE TECHNICAL RESEARCH SEMINAR**

### **“Isoindigo-based Conjugated Polymers for Organic Solar Cells and Flexible Electronics”**

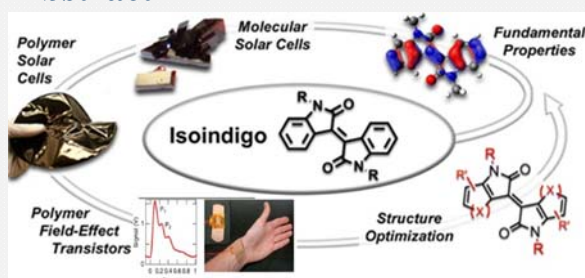
**Jianguo Mei**

Postdoctoral Research Associate  
Stanford University



**Tuesday, December 10, 2013  
3:10 p.m.  
1213 Hoover**

#### **Abstract**



This research seminar covers the story of isoindigo-based conjugated polymers, one of the most popular organic semi-conducting materials developed in recent years. In this presentation, I will share with you how isoindigo, a pigment molecule and an electron-deficient building block, was first introduced and further incorporated into various conjugated polymers, and how these polymers were engineered to provide exceptional properties in field-effect transistors and organic solar cells. I will further discuss how we built isoindigo-based pressure and biochemical sensors for human health monitoring and selective detection in marine environment.

**Teaching Seminar on Wednesday, December 11, at 9:00 a.m. in 209 Marston Hall**