

**Date: THURSDAY, APRIL 28**

**Time: 3:30-4:45 PM**

**Place: Buchanan 1930**

**Speaker: Trent Biggs; Professor, Department of Geography at San Diego State University**

**Title: "Human-Watershed Interactions in Rapidly Developing Regions"**

**Abstract:**

Land cover and land use change (LCLUC) can impact watershed processes at a range of scales, with consequent impacts on humans and ecosystems downstream. This talk presents research that uses a combination of remote sensing, fieldwork and modeling to quantify human-watershed interactions in regions with rapidly changing LCLU. Case studies include irrigation systems in southern India, where government programs are being implemented to revive traditional irrigation systems, and urban areas along the US-Mexico border region, where excess sediment load has impacted coastal wetlands. The spatial arrangement and impacts of human activities on runoff and sediment yield are mapped and framed using models from human geography. The conclusions about human-watershed interactions have policy implications and highlight challenges for maintaining human well-being and ecosystems.