

## ***LOGIC SEMINAR***

**Guest Speaker: Larry Moss**  
**Indiana University**

**Date:** Tuesday, November 29, 2016

**Time:** 2:00 PM

**Location:** 125 Hayes-Healy Hall



**Lecture Title:**  
**Natural Logic**

***Abstract***

Natural Logic Larry Moss, Indiana University Abstract: Much of modern logic originates in work on the foundations of mathematics. My talk reports on work in logic that has a different goal, the study of inference in language. This study leads to what I will call “natural logic”, the enterprise of studying logical inference in languages that look more like natural language than standard logical systems. I will sketch the history of this field, and I also will try to make as many connections as possible to work by the Notre Dame community, broadly considered. The talk should appeal to mathematical logicians interested in completeness and complexity results, including ones for logical systems that are not first-order; philosophers of logic curious about syllogistic reasoning and its many modern extensions, and also about taking inference seriously in the foundations of semantics; and computer scientists working in natural language processing and especially in textual entailment.