

**STATISTICS DEPARTMENT**



**SEMINAR**

**TITLE:** FUSING POINT-REFERENCED RADON DATA WITH AREAL URANIUM DATA ARISING FROM A COMMON SPATIAL PROCESS

**SPEAKER:** Kate Cowles  
University of Iowa



**TIME:** 4:00 P.M.

**DATE:** Wednesday, November 29, 2006

**ROOM:** 140 BARDEEN

**ABSTRACT:**

Because exposure to radon gas in buildings is a likely risk factor for lung cancer, estimation of residential radon levels is an important public health endeavor. Radon originates from uranium, and therefore data on the geographical distribution of uranium in the earth's surface may inform about radon levels. We fit a Bayesian geostatistical model that appropriately combines areal data on uranium with measurements of indoor and outdoor radon in the state of Iowa, thereby obtaining more accurate and precise estimation of the geographic distribution of average residential radon levels than would be possible using radon data alone.

Coffee and Cookies at 3:30 p.m. in Room 1210 MSC