

DR. KRISTIN SHRADER-FRECHETTE

AUTISM, ADHD, LEARNING DISABILITIES, AND HOW POLLUTANTS HARM CHILDREN:

WHY US RESEARCH ETHICS STANDARDS DO NOT PROTECT THEM ENOUGH

WEDNESDAY **JULY 23, 2013**

PROFESSIONAL BUILDING

ROOM 103

1-3 PM

US children are being harmed through inheritable developmental changes caused by pollution, especially metals, particulate matter, plastics, pesticides, and ionizing radiation.

Scientists know know that these "epigenetic" changes, caused by pollution, poor nutrition, or child abuse, are key determinants of adult disease, neurodegeneration,

lowered intelligence, obesity, and depression.



Dr Shrader-Frechette is in the Biological Sciences Department and the Philosophy Department at the University of Notre Dame, where she runs the Center for Environmental Justice and Children's Health and is O'Neill Endowed Professor. She and her students work pro bono, to free innocent people (especially children, minorities, and poor people), who often die at double or triple the rate of other people, because polluters use invalid science to impose much heavier pollution burdens on their communities. This summer, she is working in the poor Latino community of East LA, where the cancer rate is 19 times that of the rest of the US. She hopes to better assess its particulate-matter pollution, publish the research, then force the government to better regulate the diesel-exhaust harms that cause so many East LA children to have cancer in grammar school. Dr. Shrader-Frechette has authored 16 books, about 400 scientific papers, and her scientific research has been funded for 28 years by the US National Science Foundation. She was the first female president of 3 international professional organizations.