

The Research Triangle Chapter of the Society of Risk Analysis (RTC-SRA)

Seminar: Tuesday, March 6, 2001

11:30 am – 12:30 pm

Research Triangle Institute, Hobbs Building, Ground Floor Conference Room

3MRA: Integrated Multimedia, Multiple Exposure Pathway, Multiple Receptor Risk Assessment Model

Keith Little

Terry Pierson

Research Triangle Institute

The US EPA has undertaken an effort, the Hazardous Waste Identification Rule (HWIR), to identify wastes currently listed as hazardous that could be eligible for exemption from hazardous waste management requirements. Such exempted wastes would exit from management under RCRA Subtitle C thereby saving industry substantial costs. To help identify such wastes, the US EPA's Office of Solid Waste (OSW), in partnership with EPA's Office of Research and Development (ORD), has developed an integrated multimedia, multiple exposure pathway and multiple receptor risk assessment (3MRA) model that evaluates impacts to human and ecological receptors. This national scale model evaluates risks that may occur from the long-term, multimedia release of a chemical from waste management facilities typically expected to handle exempted waste. This 3MRA model was developed by RTI, Pacific Northwest National Laboratories (PNNL), EPA, and others. The model is based on an open architecture, integrating modules, and represents one of the new generation of EPA risk models. RTI staff will present an overview of the 3MRA system, followed by a more focused discussion of several of the RTI-developed modules.

Directions to RTI and Hobbs Building:

Driving directions from Interstate Highway 40, either West bound from Raleigh or East bound from Chapel Hill or Durham: Take exit 280 to Davis Drive Turn right at the top of the ramp Drive to the stoplight at Cornwallis Road and turn left. Take the second left, Institute Drive West, and park in the second parking lot for access to the Hobbs Building (see detailed map at <http://www.rti.org/map-rtp-detail.cfm> for more details).

From Durham Freeway 147: take the Cornwallis Road exit and turn left. Take the first right Institute Drive West and follow directions above.