

2003 R. E. Jervis Award – Sarah Attia

Miss Sarah Attia is awarded the R.E.Jervis Award for her research into the mechanisms involved in the radiolytic formation of organic iodides following a hypothetical loss of coolant accident in a nuclear reactor. The iodides that would be released into the containment, with the coolant, would react with the organic compounds leached from paints by the coolant to form organic iodides.

Sarah's work involved computer modelling to simulate the reaction process. Her analysis was based on results from experiments she performed using a Co-60 gammacell to simulate the reaction, followed by gas chromatography and mass spectroscopy to analyse the organic iodides formed. Sarah Attia is a graduate student at the University of Toronto, and is supervised by Dr Greg Evans in the Department of Chemical Engineering and Applied Science.