

Nuclear & Radiological Forensics

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Recent global events have resulted in a growing concern that nuclear or radiological material could be used illicitly. Nuclear and radiological forensics provide the means to gather clues and inform law enforcement on the origin of such material. This information could then provide further leads on how the source material left regulation or how it was obtained. This presentation will explain some of the fundamental principles behind nuclear and radiological forensics, and touch on two key components in the US technical nuclear forensics toolbox that have been developed at Argonne National Laboratory, the Radiological Sealed Source Library and age dating techniques for Cs-137.