

685th ASRC Seminar

Date: 13:30 - 15:00 Tuesday, July 18

Location: Conference room #5 Laboratory
building No. 1

Speaker: Dr. Atsushi Ikeda-Ohno

(Helmholtz-Zentrum Dresden-Rossendorf, Institute of
Resource Ecology)

Title: Fate of Plutonium Released from Nuclear
Weapons Tests in Australia

Abstract: In the 1950s and 1960s, a series of the British nuclear weapons tests were conducted at different sites in Australia, resulting in the significant dispersion of long-lived and highly radioactive nuclear debris. A reliable assessment of the environmental impact of these radioactive contaminants and their potential implication for human health requires an understanding of their physical/chemical characteristics. This study focuses particularly on the physical/chemical characterisation of the Pu contaminant, the most problematic radioactive contaminant remaining at the former testing sites, by synchrotron-based X-ray microscopy / spectroscopy. The chemical transformation of the Pu contaminant in the relevant environment over the last 50 years and the potential implication for radioecology will be discussed.

<Contact>

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