



Contribution ID: 450

Type: **Plenary**

Adventures in Actinide Nuclear and Radiochemistry

Sunday, 11 May 2014 19:30 (30 minutes)

In the spirit of the Hevesy Award, this talk will cover selected examples of my research during the last four decades. My work has been focused on the chemistry of the actinides and the superheavy elements. I will discuss research within actinide chemistry related to solution thermodynamics of uranium, neptunium, plutonium, and americium, as well as their sorption and biological interactions with geologic matrices, for the performance assessment of potential high-level nuclear waste repositories and environmental remediation. Additionally, I will present my work on the physics and chemistry of the heaviest elements, including the confirmation of new elements, discovery of new isotopes, and one-atom-at-a-time chemistry.

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Session Classification: Hevesy Medal Award Ceremony