

NUCLEAR SEMINAR SERIES

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Monday, April 1
4:00 pm - Rm 184 NSH

Radiation Effects in Boehmite

Remediation of legacy nuclear waste remains a significant challenge. Waste transport, dissolution, and vitrification present some of the most difficult technological aspects to tackle within the overall remediation project and are all greatly affected by the presence of boehmite ($\gamma\text{-AlOOH}$). Current models are insufficient to predict rheology or dissolution of boehmite in waste tank environments, and no models take radiation effects into consideration. In this talk, I will present some of the work I have so far in regards to how boehmite is affected by ionizing radiation as well as the implication of changes brought about by ionizing radiation.



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