

# Used Fuel Disposition Campaign

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## Overview and Introduction of Waste Form Degradation Activities

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## ■ Introduction to Waste Form Degradation Activities

- Integration of Used Fuel Disposition Campaign Activities
  - *Disposal Research Engineered Materials Performance (1.02.08.04)*
- Separations (Materials Recovery) and Waste Forms Activities Overview

## ■ Used Fuel Degradation Modeling Activities

- Radiolysis Model – Buck (PNNL)
- Mixed Potential Model – Jerden (ANL)
  - *Argillite/Crystalline (1.02.08.06/1.02.08.07)*

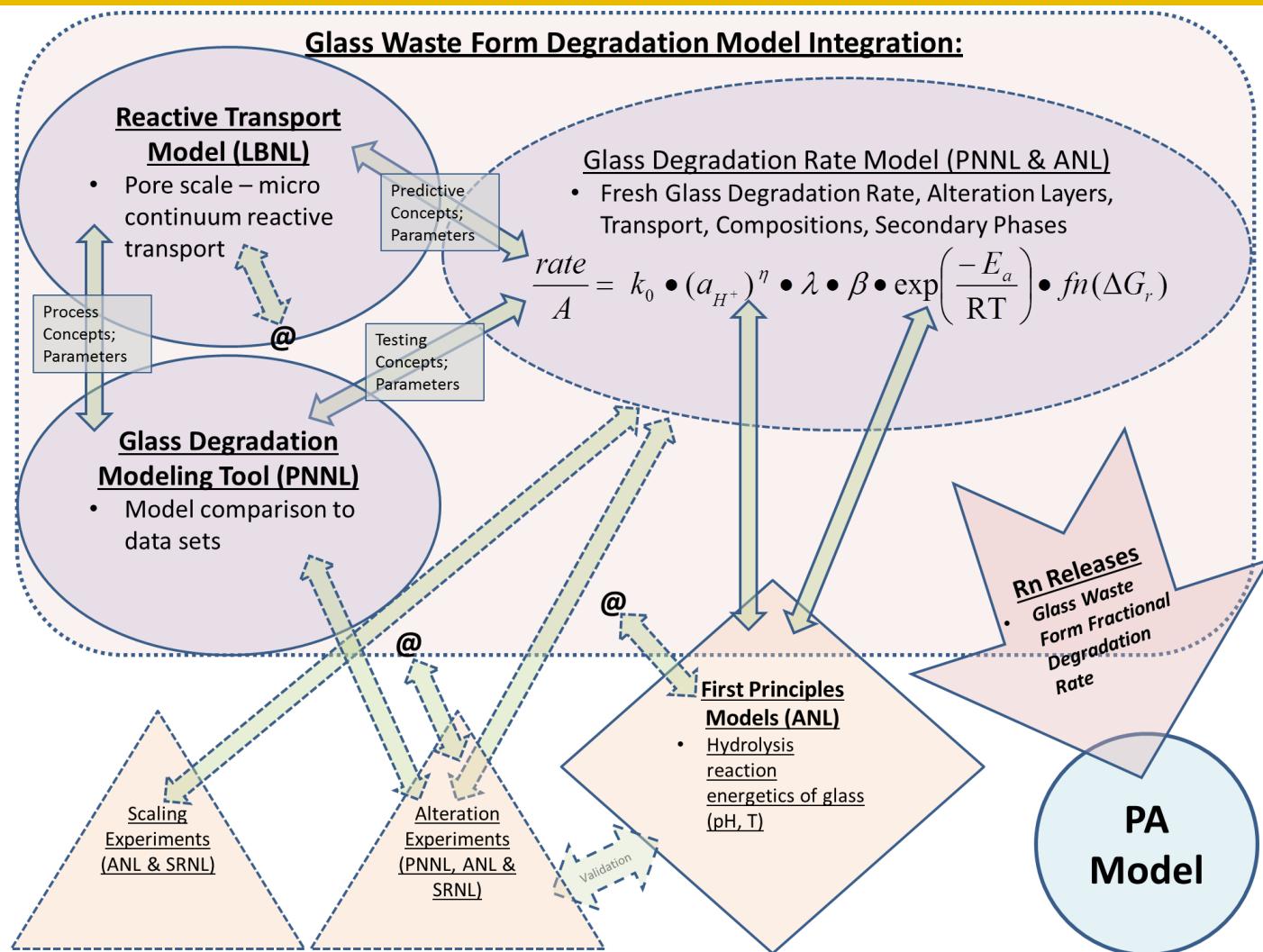
## ■ Glass Waste Form Degradation Modeling Activities

- First Principles Modeling – Zapol (ANL)
- Micro-continuum Modeling – Steefel (LBNL)
- Glass Degradation Modeling Tool – Rieke (PNNL)

## ■ Metallic Waste Form Degradation Modeling Activities

- Metallic Tc Waste Form Studies – Liu (LANL)
- Investigation of Tc in Fe-oxyhydroxides – Smith (PNNL)

# Glass Degradation Activities and Models Integration Summary



# Metallic Waste Form Activities and Models Integration Summary

