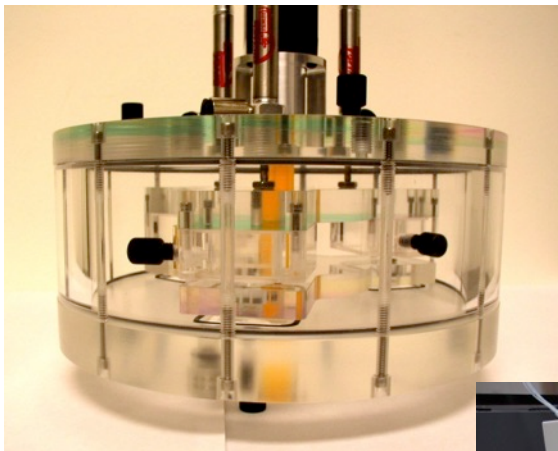


Chemical Properties of the Heaviest Elements



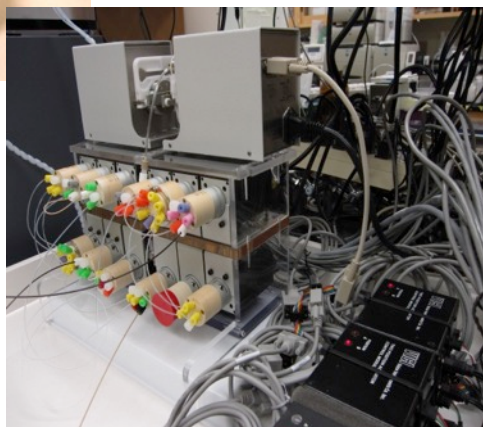
Research Overview

Developing chemical systems including automation to determine the chemical properties of the trans-actinide elements.



Gas-Liquid Interface
for Transferring
Transactinides to
Automated
Radiochemistry
(GLITTAR)

Super Heavy Element
Liquid Automation
(SHELA)



Potential Collaborations

- Chemistry development
 - Specific ligand synthesis
 - Atom-at-a-time systems with rapid kinetics
- Automated chemical systems
 - Instrumentation development
- Accelerator based chemistry experiments
 - Online measurements of short-lived species

Previous Dissertations

- Extraction Chromatographic Studies of Rf and Db Homologs (M. Bennett, UNLV, 2011)
- Investigation of flerovium and element 115 homologs with macrocyclic ligands (J. Despotopulos, UNLV, 2015)

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