

Oak Ridge National Laboratory's Glenn T. Seaborg Initiative (GTSI) External Workshop 2023

Agenda as of (May 10, 2023)

May 11, 2023		Building 5100 Room 128
Time	Event	Lead
7:00–8:00am	Badging (for non-ORNL attendees) Outside of 5100	Raine Palmer & Sam Schrell
8:00–8:05am	Welcome	Sam Schrell
8:05–8:25am	Who was Seaborg/Vision Statement	David Clark (LANL)
8:25–8:45am	Overview of the LLNL GTSI	Mavrik Zavarin (LLNL)
8:45–9:05am	Overview of the LANL GTSI	Ping Yang (LANL)
9:05–9:15am	Break	All
9:15-9:35am	Overview of the INL GTSI	Rory Kennedy (INL)
9:35-9:50am	Overview of the ORNL GTSI	Sam Schrell (ORNL)
9:50-10:00am	Break	All
10:00–10:20am	Technical Talk: Synchrotron Radiation Studies of Heavy Element Chemistry and Materials	David Shuh (LBNL)
10:20–10:40am	Technical Talk: Nuclear Nonproliferation: The Materials Matter	Tyler Spano (ORNL)
10:40-11:00am	Technical Talk: Routes to Berkelocene	Amy Price (LBNL)

May 11, 2023		Building 5100 Room 128
Time	Event	Lead
11:00–11:20am	Technical Talk: Actinide Spectroscopy at LANL	Benjamin Stein (LANL)
11:20-11:40am	Technical Talk: Don't wait, ABLATE! High speed laser ablation for elemental and isotopic mapping	Benjamin Manard (ORNL)
11:40–12:10am	Working Lunch	All
12:10-12:30pm	Technical Talk: Processing-Structure-Property-Performance Paradigms in Nuclear Fuel Development	Andrew Nelson (ORNL)
12:30-12:50pm	Technical Talk: Strong electronic correlations and topology in actinide materials	Krzysztof Gofryk (INL)
12:50-1:10pm	Technical Talk: Nuclear Environmental Engineering Sciences at Clemson University	Brian Powell (Clemson)
1:10-1:30pm	Technical Talk: Why so cold? High-Resolution Measurements with Low-Temperature Detectors	Rico Uwe Schoenemann (LANL)
1:30-1:40	Break	All
1:40-2:00pm	Overview of the LBNL Seaborg Center	Rebecca Abergel (LBNL)
2:00-2:20pm	Technical Talk: Go big or go home: big ligands for expanding actinide chemistry.	Gauthier Deblonde (LLNL)
2:20-2:40pm	Technical Talk: Generating actinides in unusual oxidation states	Christopher Dares (FIU)
2:40-2:50pm	Break	All
2:50-3:10pm	Technical Talk: Multiscale Modeling of Actinide Solutions	Greg Horne (INL)
3:10-3:30pm	Technical Talk: Actinides in Medicine: Actinium and Beyond	Nikki Thiele (ORNL)

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3:30-3:50pm	Technical Talk: Elucidating the Effect of Hydrogen on Mechanical Properties of Uranium	Mary O'Brien (LANL)
3:50-4:10pm	Technical Talk: Controlled Preparation of <i>f</i> -Block Oxide Materials from Molecular Precursors	Appie Peterson (LBNL)
4:10-4:15pm	Closing remarks	Sam Schrell
5:30-7:30pm	Working Dinner Topic: Discuss how to and opportunities to improve collaboration between Seaborg Institutes across the nation. Location: Calhoun's in Oak Ridge	All

Day 2

May 12, 2023		Building 5100 Room 128
Time	Event	Lead
8:00-8:05am	Welcome/Meet for the bus	S. Schrell
8:05-8:15	Travel to destinations	
8:15-9:15am	Group A: REDC Group B: HFIR Group C and D: Graphite Reactor	REDC – Matthew Cannon HFIR – Brian Howe Graphite Reactor – Bill Cabage
9:15-9:30am	Travel to destinations	
9:30-10:30am	Group A: HFIR Group B: REDC Group C and D: SNS	REDC – Ben Rothrock HFIR – Brian Howe SNS – Melanie Kirkham & Melisa Harvey
10:30-10:45	Travel to destinations	
10:45-11:45am	Group A and B: SNS Group C: REDC Group D: HFIR	REDC – Brad Skidmore HFIR – Krystin Stiefel SNS – Karoly Magda

May 12, 2023		Building 5100 Room 128
Time	Event	Lead
11:45am-12:00pm	Travel to destinations	
12:00-1:00 pm	Group A and B: Graphite Reactor Group C: HFIR Group D: REDC	REDC – Matthew Cannon HFIR – Aaron Chandler Graphite Reactor – Bill Cabage
1:00-1:15	Travel back to meeting location	
1:15	Adjourn	All

Groups A&B will be on the large bus. Group C will be on small bus #1 and Group D will be on small bus #2.

Group A (red):

Alyssa Gaiser
Amy Price
David Rotsch
Franklin Curtis
Gauthier Deblonde
Ivis Chaple Gore
Punam Thakur
Rico Schoenemann

Group B (green):

Appie Peterson
David Shuh
David Hobart
David Dan
Emily Mazeau
Hans-Conrad zue Loye
Mary O'Brien
Mavrik Zavarin
Shanna Estes
Stephen DeWitt
Teagan Sweet

Group C (blue):

Alice Smith
Don Wood
Duncan Moseley
Julie Smith
Ping Yang
Rebecca Abergel
Richard Howard
Rory Kennedy
Samantha Schrell

Group D (yellow):

Adam Azvel
Adrian Schrell
Benjamin Stein
Binod Rai
Brian Powell
Christopher Dares
Jenn Neu
Krzysztof Gofryk