

Nuclear Outreach Program for High School Teachers

Date: July 29-31, 2025

Emergency Contact:

Konstantinos Gkouliaras
True Miller
Stylios Chatzidakis
Seungjin Kim
Teresa Luse

Tuesday, July 29, 2025

9:00 am – 9:20 am	Welcoming and Initial Introductions – Dr. Kim	LMBS 5281S
9:20 am – 10:20 am	Nuclear Energy: Now and Onward – Dr. Kim	LMBS 5281S
10:30 am – 11:20 am	Introduction to Radiation: Effects and Uses – Konstantinos Gkouliaras	LMBS 5281S
11:30 am – 12:10 pm	Reactor Instrumentation: Radiation Detectors – Hannah Pike	LMBS 5281S
12:10 pm – 1:10 pm	Lunch Break	LMBS 5281S
1:15 pm – 2:00 pm	PUR-1 Reactor and NERL Tour – True Miller, Riley Madden, Brian Jowers	BHEE B073
2:00 pm – 3:00 pm	Cloud Chamber Lab	BHEE B073
3:00 pm – 4:00 pm	GM Detector Basics and Gamma Attenuation Lab	BHEE B073

Wednesday, July 30, 2025

9:00 am – 9:50 am	Half-Lives, Isotopes and Nuclear Fuel Cycle – Riley Madden	LMBS 5281S
10:00 am – 10:50 am	Reactor Physics, Fission and Fusion – Nathan Tollett	LMBS 5281S
11:00 am – 12:00 pm	Reactor Design and Power Production – Jonah Lau	LMBS 5281S
12:00 pm – 1:00 pm	Lunch Break	LMBS 5281S
1:00 pm – 2:15 pm	Half-Life Determination from Sub-Critical Pile Samples Lab	BHEE B073
2:30 pm – 4:00 pm	Gold Foil Activation w/ Reactor and HPGe Measurement Demo	BHEE B073

Thursday, July 31, 2025

9:00 am – 9:45 am	Digital Twin Lab Tour	POTR 336
9:45 am – 11:00 am	PRIME Lab Tour	PHYS
11:00 am – 12:00 am	Lunch & Exit Interview	LMBS 5281S
12:00 am – 12:30 pm	Travel to Thermal Hydraulics Facilities	AERO
12:30 pm – 1:30 pm	Thermal Hydraulics Facilities Tour (ART, TRSL, PUMA)	AERO
2:00 pm – 2:45 pm	Campus Tour (Optional)	Campus