

Abstract of lecture for the Schrödinger Colloquium on 3 March 2025

Speaker: Mike Headley

The Sanford Underground Research Facility (SURF) in Lead, South Dakota, is at the forefront of physics, geology, biology, and engineering research. SURF has a mission is to advance world-class science and inspire learning across generations. Mr. Mike Headley, executive director of the South Dakota Science and Technology Authority (SDSTA) and the laboratory director at SURF, will present “Sanford Underground Research Facility: 2035 and Beyond.” Headley will discuss the latest developments at SURF, including progress on the Long-Baseline Neutrino Facility (LBNF) and the Deep Underground Neutrino Experiment (DUNE). He will also speak on efforts to expand the laboratory space at SURF to pave the way for deep underground science in the decades to come. He will touch on the newly formed Institute for Underground Science at SURF, an effort to foster multidisciplinary collaboration and build intellectual community. Finally, Headley will outline SURF’s robust education and outreach program in an ongoing effort to inspire the next generation of young people to take up careers in STEM and related fields.