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Title: Overview of the Activities within the Consortium for Enabling Technologies and Innovation

Abstract:

Global nuclear energy development gives many reasons to ensure its pursuit: climate change, energy security, growth of electricity demand, and socio-political factors. While the impact is big, so are the impeding issues commonly associate with nuclear power, such as waste and proliferation and security of nuclear materials. In a fast-paced world, the approach to nuclear nonproliferation and security demands dynamic solutions. In this seminar, I will discuss the novel technologies aimed at detecting misuse and securing nuclear materials. The majority of the talk will focus on the Consortium for Enabling Technologies and Innovation, representing a team of fourteen institutions of higher education (IHE) and twelve national laboratories, committed to promoting the spirit of collaborative intelligence. The unique mission of the ETI Consortium is to direct the research and innovation to enable the technologies that support the NNSA's mission, to train the next-generation of human capital, and to bridge the gap between the university basic research and national laboratories mission-specific applications. The differentiating approach that we adopt to support the mission is to create a truly collaborative environment: the umbrella of data science to support the critical areas of enabling research of novel detectors and advanced manufacturing in nuclear nonproliferation.