

Fellowship Profile

IAEA PROGRAMS
AT ARGONNE NATIONAL LABORATORY

Food Safety

TRAINING SUMMARY

The International Food Ionizing Processing Symposium (IFIS) with the theme: "Three Days to Feed You." Started on September 26 to 29, 2023, in Dallas, Texas. The symposium focused on ionizing processing techniques for modern food safety and quality assurance. The IFIS also include a visit to STERI-TEK irradiator facility, the beauty of the facility and the horizontal accelerator configuration was of interest. The outcome of the IFIS included invaluable insights from presentations by leading researchers and industry professionals, emphasizing the application of ionizing processing to secure food safety, extend shelf life, and elevate product quality. For the STERI-TEK visit, we received a comprehensive understanding of the facility's operations and safety protocols, as well as observation of the horizontal accelerator design enhancing safety and quality of irradiated food products.

The visit to the National Center for Electron Beam Research (NCEBR) at Texas A&M University, located in College Station, Texas – started on October 2 to 6, 2023. The accelerator design (vertical configuration) of the NCEBR was also impressive. The outcome of the visit included hands-on experience and practical insights into electron beam technology, unique accelerator configuration maximizing dose distribution and ensuring uniformity. Lastly, the visit fostered collaboration and expert assistance.

WHATS NEXT?

In light of the visit and the potential establishment of a multi-purpose irradiator facility in Tanzania, I am planning to use the knowledge or advise on the following: location of the facility, market research, public awareness, and the accelerator design.



Leonid Leopold Nkuba - Tanzania

September 24th - October 6th 2023

Hosted by: Texas A&M University