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Participation of Angolan Researchers from the National Center for Scientific Investigation (CNIC) of Angola, and Members of ISTRA-Society at Third International Conference on Applications of Radiation Science and Technology (ICARST-2025)

The International Society for Radiation Applications (ISTRA-Society) proudly highlights the participation of three of its active members from the African Region—**Kabey Mbaz Rodolfo**, **Zeleme Toko**, and **Orfeu Teixeira Trindade**—at the prestigious **Third International Conference on Applications of Radiation Science and Technology (ICARST-2025)**, held from **7 to 11 April 2025** at the International Atomic Energy Agency (IAEA) headquarters in Vienna, Austria.

Representing the **National Center for Scientific Investigation (CNIC), Angola**, the researchers showcased Angola's growing capabilities in the field of industrial radiotracer applications, non-destructive testing, and radiation safety practices. Their presence not only strengthened Angola's profile in the international scientific community but also reaffirmed their dedication to ISTRA's mission of advancing the peaceful applications of radiation technologies worldwide.

KEY CONTRIBUTIONS

During the ICARST-2025 conference, researchers from CNIC made significant technical contributions that reflected their expertise, innovation, and commitment to advancing radiation science applications. Through a series of impactful presentations through posters, Kabey Rodolfo, Zeleme Toko, and Orfeu Trindade showcased Angola's growing leadership in industrial diagnostics, radiation safety, and research innovation. Their work not only highlighted practical achievements but also opened new pathways for collaboration and technological development on a global scale:

- **Kabey Rodolfo** presented the project "**Enhancing Industrial Performance and Troubleshooting Capabilities: Angola's Journey with IAEA and Moroccan Support**", highlighting the modernization of the Isotope Laboratory at CNIC, the certification of

technicians in gamma scanning and industrial radiotracer methods, and successful real-world applications at Angola's Luanda Refinery.

- **Zeleme Toko** led a presentation on **"Implementation of Radiation Safety Measures for Sealed and Unsealed Sources at CNIC"**, demonstrating CNIC's commitment to international radiation protection standards, despite infrastructure limitations such as the absence of a radiation bunker.
- **Orfeu Trindade**, alongside his colleagues, delivered a comparative study titled **"Gamma Scan in Oil Distillation Columns: Comparison of Results between Prototype and Real Columns"**, validating the effectiveness of prototype models for training and research in industrial diagnostics.



Picture 1: Orfeu Trindade presenting his poster on **"Enhancing Industrial Performance and Troubleshooting Capabilities: Angola's Journey with IAEA and Moroccan Support"**;

Picture 2: Kabey Rodolfo presenting his poster on the **"Gamma Scan in Oil Distillation Columns: Comparison of Results between Prototype and Real Columns"**;

Picture 3: Zeleme Toko presenting his poster on the **"Implementation of Radiation Safety Measures for Sealed and Unsealed Sources at CNIC"**.

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STRATEGIC IMPACT

The active engagement of these researchers at ICARST-2025 resulted in:

- Acquisition of cutting-edge knowledge on **radiotracer and non-destructive testing techniques**.
- Establishment of **new partnerships** with international institutions for future collaborative projects.
- Reinforcement of the importance of **technical training and capacity building** in radiation applications.
- Contribution to Angola's efforts in achieving the **United Nations Sustainable Development Goals** (SDGs) through the peaceful use of nuclear science and technology.

ISTRA-SOCIETY'S ONGOING SUPPORT

As dedicated members of the ISTRASociety, Kabey Rodolfo, Zeleme Toko, and Orfeu Trindade exemplify the Society's values by promoting innovation, safety, and sustainable industrial development through radiation applications. Their achievements at ICARST-2025 reflect ISTRAS's commitment to fostering excellence and international cooperation among professionals in the radiation science community.

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Picture 4. Family photo of the Stream C of the ICARST-2025

Text: Mr Zeleme TOKO.

Photos: Mr Zeleme TOKO; Mr Kabey Rodolfo.