

**International Conference on Occupational Radiation Protection:
Strengthening Radiation Protection of Workers –Twenty Years of Progress
and the Way Forward**

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Twenty Years of Monitoring of Occupational Exposures to External Radiation Sources in Cuba: Results and Challenges

In Cuba, the individual monitoring service (IMS) for occupational exposure was introduced at the end of the 80's decade at the same time with the introduction of nuclear technology applications. Since 2000, the External Dosimetry Laboratory (LDE) of the Center for Radiation Protection and Hygiene (CPHR) has been in charge to provide the personal dosimetry service for all the occupationally exposed workers of the country. The LDE has run an IMS based on automatic RADOS TLD system. The service provide dosimeters for whole body, extremities and lens of the eye monitoring, which are calibrated in terms of the operational quantities for personal dosimetry recommended by ICRU. The service also working according technical specifications recommended by IAEA and have been implemented a Quality Management System (QMS) which is accredited to ISO 17025 standard. The paper describes the service arrangements for operation and to accomplish with quality and technical requirements, as well as the main difficulties that affect their performance and operation. In addition, the paper presents a comprehensive overview of the occupational radiation exposure in the country during a twenty years period (2001-2020).

Name of Member State/Organization

Jose Fidel Santana Nuñez

Speakers affiliation

Center for Radiation Protection and Hygiene

Speakers email

daniel@cphr.edu.cu

Author: Mr MOLINA PEREZ, Daniel (Centro de Proteccion e Higiene de las Radiaciones (CPHR))

Presenter: Mr MOLINA PEREZ, Daniel (Centro de Proteccion e Higiene de las Radiaciones (CPHR))

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