



MELVYN JOSE HERNANDEZ-CAMPOS: El Salvador

Diagnostic Radiology Physics



Mr. Hernandez-Campos, B.S. of El Salvador is currently training for nine months as an Observer at the University of Texas MD Anderson Cancer Center, Department of Imaging Physics under the direction of Professor A. Kyle Jones, Ph D. Mr. Hernandez-Campos's training program involves learning how to perform the quality assurance testing of diagnostic imaging equipment modalities including conventional/digital radiology, mammography, fluoroscopy, and sectional imaging (CT, MRI, PET, etc.). Mr. Hernandez-Campos graduated from the University of El Salvador in 1997 and has worked in the School of Physics at the Faculty of Natural Science and Mathematics at the University of El Salvador since 2005. Currently, the University of El Salvador is responsible for the execution

of the project “Strengthening Capacity in Quality Assurance and Audit of Diagnostic Radiology Focusing on the National Hospital Network of El Salvador” approved and financed 95% by the IAEA. Mr. Hernandez-Campos is the Chief Coordinator and Project Executor with full support from the University of El Salvador.

The two objectives of the Project are: (a) increase and improve the technological skills of the employees within the Ministry of Public Health and Public Assistance (MSPAS) and (b) implement a systematic program for quality control within the diagnostic radiology department of the national hospital network. The first objective requires frequent basic training courses for operators of X-ray units as well as for maintenance engineers and medical physicists. The second objective requires the creation of a lab to manage the data acquired at the audit visits to diagnostic radiology departments in the country. This lab will be created within the School of Physics.

The skills and knowledge Mr. Hernandez-Campos will gain during the fellowship will be very useful for the MSPAS in performing accurate measurements for physical quality assurance and quality control in X-ray departments in El Salvador. He will help support the programs for the education and training of clinical staff for quality assurance and the preparation of the instructions and document templates for technical quality assurance, as well as radiation protection in diagnostic radiology. This fellowship training will be extremely useful in the near future because the University of El Salvador wants to formalize mutual cooperation between the MSPAS in order to maintain the continuity of the project over time.

Training period 8/15/2010 – 5/13/2011