



Application of Isotopes and Radiation in Biology and Environmental Studies

Ms. Sedkhuu Tsevelmaa of Mongolia underwent training at the Veterinary Diagnostic Laboratory, Iowa State University in Ames, IA USA as a participant in the IAEA Fellowship program. Dr. Wilson K. Rumbelha of Iowa State University supervised the training which consisted of training and shadowing in the veterinary diagnostic laboratory as well as in clinical pathology, along with attendance of toxicology lectures, the AAVLD conference in Kansas City and visiting Iowa State University farms. The major elements of the training were to improve skills and knowledge of sophisticated equipment, like ICP-MS, ICP-OES, HPLC, IC, and AA, as well as sample preparation and sample analysis.

In Mongolia Ms. Sedkhuu Tsevelmaa has worked at the State Central Veterinary Laboratory, Ministry of Food, Agriculture and Light Industry since 2011. This training will assist her back in Mongolia in ways such as allowing the establishment of safe work conditions in the toxicology and chemistry labs and identifying appropriate equipment to buy in the lab for environmental toxicology. She also gained knowledge and experience in methodologies and trouble shooting, which directly relates to her work in Mongolia.

Experiments, such as animal dosing experiments, will prove helpful upon return as she will know how to better design experiments, collect samples, analyze samples and conduct statistical analysis on data. Knowledge gained from clinical pathology has provided ideas of automated equipment that can be used for biochemical tests, while the training in case reviews provided the knowledge needed to better interpret test results. During the three months at Iowa State University, her English improved, allowing her to better translate from English to Mongolian.



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