

Environmental Radiation Dose Measurement, Modeling, and Communication

Executive Summary

We will develop a new course titled “Environmental Radiation Dose Measurement, Modeling, and Communication.” The lecture portion will be online. The laboratory portion will be offered on-campus as four (6-hour) weekend sessions. Our development efforts will incorporate proven web-based instructional technologies and emerging technologies and infrastructure. This course will be a required course in our graduate program in Health Physics. Undergraduates (seniors) may also take the course with permission from the instructor. Early on we expect 10-15 students/year. We believe that within five years our numbers will be at least 30 students/year. We will also draw students from San Diego State University’s programs in environmental sciences, geography, public health, and homeland security. We also expect interest from non-student professionals seeking educational enhancements. Therefore, we will be more effective at training the future workforce necessary to support the nuclear power industry. The environmental monitoring equipment purchased with funds from this project will be used in conjunction with modeling programs to train students in the monitoring of air-borne radioactivity. This capability will help serve the San Diego region for measurement of unintended releases of radioactive material.

Principal Investigator: Patrick Papin, ppapin@sciences.sdsu.edu