IMRP2027 GERMANY

PUFFIn eLearning Workshop

Sunday 11th April 2027 1pm to 5pm

Crowne Plaza Düsseldorf-Neuss in Düsseldorf, Germany

PUFFIn (PENELOPE User Friendly Fast Interface) is a graphical user interface developed to perform Monte Carlo calculations of dose distribution in products and associated packaging during the irradiation process. PUFFIn allows users to explore the ionizing radiation source options of electron beam, X-ray and cobalt-60 gamma-rays. Comparisons with dosimetry have shown PUFFIn to be a reliable predictor of the dose profile in packaged medical products.

PUFFIn can be handle both simple product volumes and complex CAD and CT files. It is therefore suitable for predictive dose mapping for a wide range of products and materials including medical devices, fruit, vegetables, grains, liquids and biological samples.

PUFFIn

- **SIMULATES** Ebeam, X-ray and Cobalt-60 sources
- **GENERATES** both 2D and 3D dose maps
- **CALCULATES** Dose Uniformity Ratios
- **DETERMINES** the Optimal Location for Dosimters

About the PUFFIn eLearning Workshop: This workshop will review the initial release of the new PUFFIn eLearning module. Participants will be able to take the PUFFIn training and download the code prior to the start of the workshop The workshop will focus on the eLearning experience and build on more advanced principles such as the importing of CAD and CT files.

BEFORE THE WORKSHOP

- All participants will be required to undertake the new eLearning training program in advance of the Workshop.
- The eLearning training program will cover all the basic aspects of using PUFFIn and will enable participants to download the PUFFIn code.

DURING THE WORKSHOP

- We will go through the eLearning materials together and obtain input from participants on how to enhance the online content.
- More advance topics will be covered beyond the online content including CAD and CT file import.
- Individual consulting will be available for user specific applications.

The PUFFIn eLearning Workshop is free of charge but participation is limited. Participants *must* complete the eLearning module prior to attending the workshop. Therefore, access to the eLearning program will be provided to all registered participants prior to the workshop.

To express your interest in completing the PUFFIn eLearning module and participating in this Workshop, please contact Kristie Moore at **kristie.moore@pnnl.gov.**

The PUFFIn eLearning Workshop will be held immediately before the start of IMRP 2027.
To learn more about IMRP 2027, please visit **imrp-iia.com**