

# MASTERING ADVANCED PASSIVE DOSIMETRY FOR RADIATION PROTECTION IN HARSH AND COMPLEX RADIATION ENVIRONMENTS

Research | Medicine | Industry | Nuclear plants | Space Exploration | Military Applications

**An interactive 2-hour webinar with Dr. Shakardokht Jafari, Founder & CEO of TRUEinvivo®**

- ✦ UK Women in Innovation Award Winner
- ✦ Innovator of the Year 2024
- ✦ Developer of the DOSEmapper™ micro silica bead dosimetry system

### Application areas

- ✦ Healthcare & Radiotherapy
- ✦ High-precision in-vivo dosimetry for adaptive and personalized radiotherapy
- ✦ Accurate dose measurement at the tumor site and organs at risk (1D, 2D, 3D configurations)
- ✦ Potential to reduce side effects and improve patient safety and outcomes
- ✦ Applications also in animal radiotherapy
- ✦ Industrial & Specialized Applications
- ✦ Nuclear decommissioning
- ✦ Oil & gas decommissioning
- ✦ Cosmic radiation monitoring
- ✦ Military applications
- ✦ Environmental monitoring
- ✦ Food irradiation
- ✦ Electronic components testing
- ✦ Research

### Key Technical Highlights

- ✦ Measurement accuracy:  $\pm 3\%$
- ✦ Bead size reduced to 1.0 mm, enabling arrays to fit in brachytherapy interstitial needles
- ✦ Configurations: 1D, 2D and 3D dose mapping
- ✦ Suitable for in-vivo measurements and complex geometries
- ✦ Fast readout and detailed reporting



### What you will learn

Accurate dosimetry is essential for effective radiation protection. In this interactive webinar, Dr. Shakardokht Jafari presents DOSEmapper™ and discusses its technical performance and practical applications in radiation protection.

### Credits

2 refresher credits for Radiation Protection Experts upon successful final test (course and test in English).

### Subscription

15€ to be paid by August 10th.

### Scientific Committee

F. Cioce, L. Isolan, E. Rossi, T. Tunno, L. Ferrero

