**Progamma Ortec Spectroscopy Seminar**

**HPGe detector and cooling** | *by Dr. Uwe Jörg van Severen*

* **HPGe detector physics**
The topic will cover the physics about HPGe detectors in principal. We will discuss the detector response function and the construction of a detector. The side effect will be to understand which detector is best for which specific measuring application.
* **New developments on the HPGe detector market**
Beside the classical HPGe detector designs, the different manufacturers have introduced new detectors to provide a wide range of technical solutions for the customers. We will discuss the new designs and contacting methods to provide solid information for the customers to select the ‘right’ detector.
* **New ways for HPGe cooling**
HPGe detectors have to be cooled, but the classical way of cooling with liquid nitrogen is perhaps not always the best method. New technology is now available to adjust the cooling method to the customer needs.

**Spectroscopy and nuclide identification** | *by Dr. Patrick Eulgem*

* **Scintillation spectroscopy and/or alpha spectroscopy**
Based on the application scintillation detectors will fulfill your requirement.
Alpha spectroscopy; making the right choice.
* **Nuclide identification**
Nuclide identification with portable detectors and their double use for in-situ measurements

**Software solutions for each application** | *by Dr. Marc Breidenbach*

* MCA Emulation, Gamma Spectroscopy software, efficiency calibration, counting lab software, what do I need?
* The recent laboratory software is much more than just a gamma spectroscopy software.

**Programma**

09.30 – 10.00u    Aankomst / registratie

10.00 – 10.30u    Introductie door PEO

10.30 – 12.30u    Eerste deel van het seminar

12.30 – 13.30u    Lunchpauze

13.30 – 16.00u    Tweede deel van het seminar

16.00 – 17.00u    Drankjes en uitreiking certificaten