**Assoc. Prof. Dr. Christophe Pécheyran**

***Institut des Sciences Analytiques et de Physico-chimie de l’Environnement et des Matériaux***

***(IPREM), UMR 5254 Université de Pau et des Pays de l’Adour - CNRS, Laboratoire de Chimie Analytique Bio Inorganique et Environnement (LCABIE)***

**Trace element determination by atomic spectrometry techniques**

Recent advances in atomic spectrometry allow considering original applications. Some techniques considered as mature (or dead!), such as GF/AAS, might now relive due to the combination of graphite furnace with continuum light source and high spectral resolution spectrometer. Inductively Coupled Plasma Mass Spectrometry has also received a great interest in the last decade with the arising of new mass spectrometer geometries: right angle ion beam deflection, Mattauch Herzog geometry, Jet interface HR-ICPMS. In this course, we will present this innovative instrumentation.