

**Characterization DAYS of GDR NINO**  
**"From standard to advanced characterization techniques"**  
**8-10 November 2023**

**Venue** : ECPM-Amphi Lambla, Strasbourg (23 rue du Loess)

**Registration** : email to : [sylvie.begin@ipcms.unistra.fr](mailto:sylvie.begin@ipcms.unistra.fr)

**Wednesday 8 November**

**12h45-13h Wellcome of participants**

**13h- 14h Conferences:** David Portehault, LCMCP : Caractérisation multi-technique pour la compréhension de la structure et des propriétés de nanoparticules

**14h-15h30 : Christophe Lefevre, IPCMS Strasbourg,** XR diffraction applied to nanomaterials and fitting of XRD pattern

**15h30-16h00 : Coffee Break**

**16h-17h : Lise-Marie Lacroix, LPCNO Toulouse,** Magnetometry: different measurements to characterize nanoparticles - size, chemical order and surface state

**17h-18h30 : Ovidiu Ersen, IPCMS / Jaysen Nelayah, MPQ :** Electron microscopy for studying nanoparticles: principle and examples of applications. Image analysis (TD)

**Thursday 9 November**

**8h30-9h30 : Jaysen Nelayah, MPQ / Ovidiu Ersen, IPCMS :** Environmental electron microscopy applied to the dynamic study of nanoparticles

**9h30-10h30 : David Carrière, IRAMIS :** Introduction to X-ray scattering: what it can do and how it can be used

**10h30-11h : Coffee break**

**11h-12h : Spyros Zafeiratos, ICPEES :** What photoemission spectroscopy can and cannot do for the characterization of nanomaterials

**12h-13h : Benedikt Lassalle, SOLEIL :** X-ray spectroscopies for nanomaterials: absorption, emission and inelastic scattering

**Lunch : 13h-14h30 Lunch CROUS Cronenbourg**

**14h30-15h Conference :** Valérie Briois, SOLEIL : Apport des techniques synchrotron à la caractérisation des nanoparticules

**15h-17h : Visit of characterization techniques in LABs**

**17h-20h : Poster session and soirée bieres – bretzel - knacks**

**Friday 10 November**

**8h30-10h : Yannick Coppel, LCC :** Advanced NMR spectroscopy techniques for nanomaterial characterization

**10h-10h30 : Coffee break**

**10h30 : 11h30 : Michel Terray, SD Tech,** Nanoparticle size measurement by light scattering

**11h30-12h30 : Benoit Pichon IPCMS :** Circular magnetic X-ray dichroism: an effective technique for studying the chemical structure of nano-objects

**12h30-13 : conclusion**