

Workshop on “colloids and nanoparticles as REE vectors”

December 13th to 15th 2021
Synchrotron SOLEIL
L'Orme des Merisiers, Saint-Aubin, France

Program

December 13th – Day 1 (Amphitheatre)

- 09:30 - 10:00 *Arrival and Welcome coffee*
- 10:00 - 10:30 Welcome and Introduction
Delphine VANTELON, Mélanie DAVRANCHE, Aline DIA, Delphine TALMON
- 10:30 - 11:30 The main routes of rare earth elements recycling
Juliette SIRIEIX
- 11:30 - 12:30 Natural colloids and nanoparticles: definition, behaviour and their effects on the fate of trace elements
Mathieu PEDROT
- 12:30 - 14:00 *Lunch at SOLEIL restaurant*
- 14:00 - 14:30 ESR6 presentation
Anne BUIST
- 14:30 - 16:00 Introduction to synchrotron radiation
Valérie BRIOIS
- 16:00 - 16:30 *Coffee break*
- 16:30 - 18:00 Introduction to X-ray Absorption Spectroscopy (XAS)
Pierre LAGARDE
- 19:30 – 21:00 *Diner at SOLEIL restaurant*

December 14th – Day 2 (Amphitheatre)

- 09:00 – 09:30 ESR1 presentation
Yasaman TADAYON
- 09:30 - 11:00 Visit the synchrotron
Garance AUBRY
- 11:00 - 11:30 *Coffee break*
- 11:30 - 12:30 A small introduction to Small Angle X-rays Scattering: how to characterize Colloids and Nanoparticles – lesson
Thomas BIZIEN
- 12:30 - 14:00 *Lunch at SOLEIL restaurant*

14:00 - 15:30	(Group 1 – LIBRA Room) Tutorial μ XRF imaging data analysis <i>TD1- Camille RIVARD & Nicolas TRCERA</i>	(Group 2 – PHENIX Room) Tutorial XAS data analysis <i>TD2- Valérie BRIOIS & Delphine VANTELON</i>
15:30 - 16:00	<i>Coffee break</i>	
16:00 - 17:30	(Group 2 – LIBRA Room) Tutorial μ XRF imaging data analysis <i>TD1- Camille RIVARD & Nicolas TRCERA</i>	(Group 1 – PHENIX Room) Tutorial XAS data analysis <i>TD2- Valérie BRIOIS & Delphine VANTELON</i>
17:30 - 18:30	Technical textile fibers for industrial water depollution and recycling of metals <i>Ekaterina SHILOVA</i>	
19:30 – 21:00	<i>Conference Diner at SOLEIL restaurant</i>	

December 15th – Day 3 (Amphitheatre)

09:00 – 10:30	A small introduction to Small Angle X-rays Scattering: how to characterize Colloids and Nanoparticles – demo <i>Thomas BIZIEN</i>
10:30 - 11:00	<i>Coffee break</i>
11:00 - 12:00	D-DLS a new solution for anisotropic nanoparticle characterization <i>Sylvain BOJ</i>
12:00 - 12:30	Summary, Discussion, Outlook, and Farewell <i>Delphine VANTELON, Mélanie DAVRANCHE, Aline DIA, Delphine TALMONT</i>
12:30 - 14:00	<i>Lunch at SOLEIL restaurant</i>