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 VANTEHELON, 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) (Group 2 – PHENIX Room)
Tutorial µXRF imaging data analysis Tutorial XAS data analysis
TD1- Camille RIVARD & Nicolas TRCERA TD2- Valérie BRIIOIS & Delphine VANTELON

15:30 - 16:00 Coffee break

16:00 - 17:30 (Group 2 – LIBRA Room) (Group 1 – PHENIX Room)
Tutorial µXRF imaging data analysis Tutorial XAS data analysis
TD1- Camille RIVARD & Nicolas TRCERA TD2- Valérie BRIIOIS & Delphine VANTELON

17:30 - 18:30 Technical textile fibers for industrial water depollution and recycling of metals
Ekaterina SHILOVA

19:30 – 21:00 Conference Diner at SOLEIL restaurant

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
Thomas BIZIEN

10:30 - 11:00 Coffee break

11:00 - 12:00 D-DLS a new solution for anisotropic nanoparticle characterization
Sylvain BOJ

12:00 - 12:30 Summary, Discussion, Outlook, and Farewell
Delphine VANTELON, Mélanie DAVRANCHE, Aline DIA, Delphine TALMONT

12:30 - 14:00 Lunch at SOLEIL restaurant