



WORKSHOP ON

# “colloids and nanoparticles as REE vectors”

December 13<sup>th</sup> to 15<sup>th</sup> 2021

Synchrotron SOLEIL

Programme

## December 13<sup>th</sup> – Day 1

9h30 – 10h00	<b>Arrival &amp; Welcome Coffee</b>
10h00 – 10h30	<b>Welcome &amp; Introduction</b> - Delphine VANTELON, Mélanie DAVRANCHE, Aline DIA, Delphine TALMON <i>Amphitheatre</i>
10h30 – 11h30	<b>The main routes of rare earth elements recycling</b> - Juliette SIRIEIX <i>Amphitheatre</i>
11h30 – 12h30	<b>How do natural environmental colloids and nanoparticles affect the behaviour of trace metals?</b> - Mathieu PEDROT <i>Amphitheatre</i>
12H30 – 14h00	<b>Lunch</b> <i>SOLEIL restaurant</i>
14h00 – 14h30	<b>ESR6 presentation</b> - Anne BUIST <i>Amphitheatre</i>
14h30 – 16h00	<b>Introduction to synchrotron radiation and X-ray matter interaction</b> - Valérie BRIOIS <i>Amphitheatre</i>
16h00 - 16h30	<b>Coffee break</b>
16h30 – 18h00	<b>Introduction to X-ray Absorption Spectroscopy (XAS)</b> - Pierre LAGARDE <i>Amphitheatre</i>
19h30	<b>Diner</b> <i>SOLEIL restaurant</i>

## December 14<sup>th</sup> – Day 2

9h00 – 9h30	<b>ESR1 presentation</b> - <i>Yasaman TADAYON</i> <i>Amphitheatre</i>	
9h30 – 11h00	<b>Visit the synchrotron</b> - <i>Garance AUBRY</i> <i>Synchrotron</i>	
11h00 – 11h30	<b>Coffee break</b>	
11h30 – 12h30	<b>Small Angle X-ray Scattering (SAXS) – lesson</b> - <i>Thomas BIZIEN</i> <i>Amphitheatre</i>	
12H30 – 14h00	<b>Lunch</b> <i>SOLEIL restaurant</i>	
14h00 – 15h30	<b>(Group 1) Tutorial <math>\mu</math>XRF imaging data analysis</b> <i>TD1- Camille RIVARD &amp; Nicolas TRCERA</i> <i>Libra</i>	<b>(Group 2) Tutorial XAS data analysis</b> <i>TD2- Valérie BRIOIS &amp; Delphine VANTELON</i> <i>Phenix</i>
15h30 – 16h00	<b>Coffee break</b>	
16h00 – 17h30	<b>(Group 2) Tutorial <math>\mu</math>XRF imaging data analysis</b> <i>TD1- Camille RIVARD &amp; Nicolas TRCERA</i> <i>Libra</i>	<b>(Group 1) Tutorial XAS data analysis</b> <i>TD2- Valérie BRIOIS &amp; Delphine VANTELON</i> <i>Phenix</i>
17h30 – 18h30	<b>Technical textile fibers for depollution and recycling of metals (titre non définitif)</b> - <i>Ekaterina SHILOVA</i> <i>Amphitheatre</i>	
19h30	<b>Diner</b>	

## December 15<sup>th</sup> – Day 3

9h00 – 10h30	<b>Small Angle X-ray Scattering (SAXS) – demo</b> - <i>Thomas BIZIEN</i> <i>Amphitheatre</i>
10h30 – 11h00	<b>Coffee break</b>
11h00 – 12h00	<b>Characterization of Nanoparticles by in situ DLS and coupling with SAXS, SANS or any other radiation source</b> - <i>Sylvain BOJ</i> <i>Amphitheatre</i>
12h00 – 12h30	<b>Summary, Discussion, Outlook, and Farewell</b> - <i>Delphine VANTELON, Mélanie DAVRANCHE, Aline DIA, Delphine TALMONT</i> <i>Amphitheatre</i>
12H30 – 14h00	<b>Lunch</b>