

Preliminary Programme

Monday, October 5th, 2026

From LURE to the 4th Synchrotron Radiation facility History and Driving Concepts

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| 13:30 - 14:00 | <i>Registration</i> |
| 13:55 - 14:00 | <p>Welcome</p> <p>Valérie Briois, Delphine Vantelon – UR1-CNRS & Synchrotron SOLEIL, France</p> |
| 14:00 - 14:35 | <p>Les dix premières années de l'EXAFS à LURE</p> <p>Pierre Lagarde, Denis Raoux - Synchrotron SOLEIL, France</p> |
| 14:35 - 15:10 | <p>XAFS de surface et XAFS dispersif ; l'usage essentiel de la polarisation du photon dans le champ naissant des interfaces et multicouches</p> <p>Dominique Chandesris, Alain Fontaine - CNRS, France</p> |
| 15:10 - 15:27 | <p>XAFS in France before synchrotron facilities</p> <p>Christian Brouder - Sorbonne University, Paris, France</p> |
| 15:27 - 15:45 | <p>Apprendre à se connaître : Rayonnement synchrotron et sciences de la Terre à la fin du XXe siècle</p> <p>Georges Calas - IMPMC, Paris, France</p> |
| 15:45 - 16:00 | <p>First in situ XAFS investigation of the electrochemical interface, DCI/LURE 1991</p> <p>Abderrahmane Tadjeddine, Institut de Chimie Physique</p> |
| 16:00 - 16:30 | <i>Coffee Break setting up in front of the SOLEIL Auditorium - Main Building</i> |
| 16:30 - 17:05 | <p>La spectroscopie d'absorption sous pression : une spécialité française, du LURE à SOLEIL en passant par l'ESRF et SLS</p> <p>Alain Polian, Jean Paul Itié – IMPMC, Sorbonne University & Synchrotron SOLEIL, France</p> |
| 17:05 - 17:40 | <p>Chemistry & XAFS@LURE at the edge of the 80s, Science, People, Driving Concepts</p> <p>Christophe Cartier Dit Moulin, Michel Verdager, Françoise Villain - IPCM, CNRS Sorbonne Université, Paris, France</p> |
| 17:40 - 18:15 | <p>The Journey of XAFS beamlines from the 1st to the 4th generation of Synchrotron Radiation Facilities</p> <p>Jean Daillant, Michèle Sauvage – ESRF & Synchrotron SOLEIL, France</p> |
| 18:30 - 20:30 | <p>Museum visit - ACO (Anneau de Collision d'Orsay)</p> <p>Access is limited to registered visit participants.</p> <p>18:30 - Bus departure in front of the SOLEIL' reception building</p> |

Tuesday, October 6th, 2026

XAFS Contribution to the Past and Today Science

09:00 – 09:05	Introduction
09:05 - 10:00	XAFS Theory: 50 Years of Breakthroughs John Rehr - Department of Physics. University of Washington, United States
10:00 - 10:35	Invited talk : XAS utilization in glass studies : potentialities, difficulties and blind corners Stéphanie Rossano - Laboratoire Géomatériaux et Environnement, Université Gustave Eiffel, France
10 :35 – 11 :00	Coffee Break <i>setting up in front of the SOLEIL Auditorium - Main Building</i>
11:00 - 11:35	X-ray Spectroscopy at the European X-ray Free Electron Laser Sakura Pascarelli - European XFEL, Germany
11:35 – 11 :53	First-principles XANES calculations within the pseudopotential framework: 17 years of XSpecra Delphine Cabaret - Sorbonne Université, IMPMC, France
11 :53 – 12 :29	XAFS in liquids and disordered systems: early and recent advances from LURE times to today Andrea Di Cicco - Università di Camerino, Italy
12:30 - 14:00	Lunch
14:00 - 15:30	Parallel sessions – 2 different rooms • Disordered Materials & Cultural Heritage - Amphitheatre • Catalysis - Reception Building Amphitheatre
15 :30 – 15 :55	Coffee Break <i>setting up in front of the SOLEIL Auditorium - Main Building</i>
15:55 – 16:30	Evolution of Synchrotron XAS for Heterogeneous Catalysis: From early studies to operando strategies and data analysis, at IFPEN Christèle Legens - IFP Energies Nouvelles, France
16:30 – 17:30	Meet our sponsors and exhibitors • Advanced Detection Solutions for Synchrotron Applications Greateyes – Mann Fenton – 10' • Iliad: A Next-Generation EELS Platform for X-ray Absorption Spectroscopy–Like Information in the TEM by Thermofisher – Arno Meingast – 10' • PEPR DIADEM – Jean Pascal Rueff • PEPR LUMA – Anthony Beauvois • DIM MaTerRe • DIM PAMIR
17:30 - 18:30	Poster session
18:30	Bus departure <i>in front of the SOLEIL' reception building</i>
18:40-23:30	Conference diner at La Coupole

Wednesday, October 7th, 2026

**Theory and Data Analysis
Technique Evolutions**

09:00 – 09:05	Introduction
09:05 - 10:00	Simulating X-ray Absorption Spectroscopies Can Be Useful Yves Joly - Institut Néel. Université Grenoble Alpes, France
10:00 - 10:35	Invited talk : X-ray Spectromicroscopy or Microspectroscopy ? A Methodological Perspective Jean Susini – Synchrotron SOLEIL, France
10:35 - 11:00	Coffee Break - setting up in front of the SOLEIL amphitheater
	Parallel sessions – 2 different rooms
11:00 - 12:30	• Energy Related Materials – Amphitheatre • Geosciences Part I - Reception Building Amphitheatre
12:30 - 14:00	Lunch
14:00 - 14:35	X-ray Absorption Spectroscopy: A Key to Deciphering and Optimizing Battery Materials Laurence Croguennec – ICMCB, France
14:35 - 14:53	Understanding chemical bonds with valence RIXS Oana Bunau – ESRF, France
14:53 – 15:11	Orbital Engineering in Graphene/SiC: An ELNES and FDMNES Study Vinod Kumar Paidi - CNRS, INSA Lyon, UCBL, MATEIS, UMR 5510, France
15:11 – 15:29	Unraveling Local Environment in Multicomponent Materials using Reverse Monte Carlo Simulations Alexei Kuzmin - Institute of Solid State Physics, Latvia
15:29 – 15:47	Multiple-Edge EXAFS/RMC Refinement for 3D Local Structure in SrTiO ₃ Andris Anspoks - Institute of Solid State Physics, Latvia
15:50 - 16:10	Coffee Break setting up in front of the SOLEIL Auditorium - Main Building
16:10 - 16:45	Dichroisms at LURE and SOLEIL Philippe Saintavit - Institut de Minéralogie, de Physique des Matériaux et de Cosmochimie. Sorbonne Université, France
16:45 - 17:03	Introducing « FITNESS »: a new program, built-in to Fastosh, to efficiently perform shell-by-shell fitting of the EXAFS Gautier Landrot – Synchrotron SOLEIL, France
17:03 - 17:21	From Monometallic to Bimetallic NiCo/SiO ₂ : Element-Resolved Active-Site Identification by Operando XAS and MCR-ALS Shuchi Zhang - Eindhoven University of Technology, Netherlands

17:21 – 17:39	Resolving the "Coloring Problem" in Crystallography: The Synergistic Power of EXAFS and Resonant Diffraction Carmelo Prestipino – CRISMAT, France
17:39 – 17:57	EXAFS Unbound: Unlocking Atomic Scale Insights Beyond The Next Edge Rene Bes - University of Helsinki, Finland
17:57 – 18:30	Hommage à Alain Michalowicz Karine Provost - Institut de Chimie et des Matériaux Paris-Est. Université Paris Est Créteil, France
18:30 – 20:00	Poster session and Aperitif

Thursday, October 8th, 2026

Technique Evolutions 4th Generation and Beyond

09:00 – 09:05	Introduction
09:05 - 10:00	Plenary lecture : XAS Data Analysis in the Era of Machine Learning Janis Timoshenko - Fritz Haber Institute. Max-Planck-Gesellschaft, Germany
10:00 - 10:35	Tracing cadmium from soil to foodstuff using X-ray techniques Geraldine Sarret - Institut des Sciences de la Terre. Université Grenoble Alpes, France
10:35 - 11:00	Coffee Break <i>setting up in front of the SOLEIL Auditorium - Main Building</i>
	Parallel sessions – 2 different rooms
11:00 - 12:30	• Chemistry – Amphitheatre • Geosciences Part II - Reception Building Amphitheatre
12:30 - 14:00	Lunch
14:00 - 14:35	XAFS and nuclear fuels Philippe Martin - CEA Marcoule, DES/ISEC/DMRC, France
14:35 - 14:53	Beyond XAS with RIXS Jean-Pascal Rueff – Synchrotron SOLEIL, France
14:53 - 15:11	Study of the genesis of HDS catalysts by in situ photon in photon out spectroscopy Sylvain Cristol - Université de Lille, France
15:11 – 15:29	Understand 4f covalency by ab initio calculated RIXS plane Sihan Zhang - ESRF, France
15:29 – 15:47	Tender X-ray photon-in/photon-out spectroscopy at ESRF ID26 Pieter Glatzel - ESRF, France
15:50 - 16:10	Coffee Break <i>setting up in front of the SOLEIL Auditorium - Main Building</i>
16:10 - 16:45	Multi-scale characterization of environmental colloidal materials Laurent Michot - Laboratoire de physicochimie des électrolytes et nanosystèmes interfaciaux. Sorbone Université, France

16:45 – 17:03	Developments of the setup for pump-probe X-ray absorption fine structure (XAFS) and a capability of EXAFS at FXE instrument, European XFEL Yohei Uemura - European XFEL, Germany
17:03 – 17:21	FAME-PIX: The Pioneering French High-Resolution Hyperspectral 3D X-Ray Microscope at the ESRF Julio C. Da Silva — Institut Néel, CNRS, France
17:21 – 17:39	Operando Spatio-Temporal Study of CO oxidation reaction in Pd Catalysts using Full-Field Hyperspectral XAS imaging Marlon Muniz Da Silva – CNPEM, Sirius, Brazil
17:39 – 17:57	X-ray Absorption Spectroscopy meets Imaging to Unveil Inclusion Puzzles in Deep Diamonds Helio Tolentino - LNLS/CNPEM, Brazil
18:00	Conclusion & Goodbyes

Friday, October 9th, 2026

Fastosh & FDMNES Tutorials

09:30 – 12:00	Fastosh Tutorial - Simulation of EXAFS: a live introduction to FITNESS, a new software built-in to Fastosh Gautier Landrot – Synchrotron SOLEIL, France
12:00 - 13:30	Lunch
13:30 – 16:30	FDMNES Tutorial - Simulation Of XANES Using The FDMNES Code Yves Joly - Institut Néel, CNRS, UGA



Parallel Session Schedule

Tuesday, October 6th, 2026

Disordered Materials & Cultural Heritage

Amphitheatre

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| 14:00 – 14:18 | Local Structure in Silicate Glasses and Melts at Extreme Conditions
Max Wilke - <i>Universität Potsdam, Germany</i> |
| 14:18 - 14:36 | From liquid to solid: The contribution of XANES at the structure and properties of glasses and melts
Daniel Neuville - <i>IPGP CNRS, France</i> |
| 14:36 - 14:54 | Comparative Pt L ₃ -edge XAS study of Pt nanoparticles with different morphologies in solution and tumor cells
Raul Magro Hernandez – <i>UCM, Spain</i> |
| 14:54 - 15:12 | XAFS to study Cultural Heritage Metallic Materials
Solenn Reguer – <i>Synchrotron SOLEIL, France</i> |
| 15 :12 – 15 :30 | Harnessing X-rays to Reveal Historical Productions in Late Iron Age Britain
Susan Nehzati - <i>Diamond Light Source, United Kingdom</i> |

Catalysis

Reception Building Amphitheatre

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|-----------------|---|
| 14:00 – 14:18 | Catalyst Design Guided by XAS Spectroscopy
Xavier Carrier - <i>Sorbonne Université, France</i> |
| 14:18 - 14:36 | XAS's contribution to IRC(IRCELYON) research in the field of catalysis
Christophe Geantet - <i>CNRS, France</i> |
| 14:36 - 14:54 | Operando XAFS Reveals Interfacial Redox Chemistry of Supported Metal Catalysts as the Switch Descriptor Between Base- and Tip-Growth Carbon Filaments During Catalytic Methane Splitting
Wilson Henao – <i>Instituto de Tecnología Química (ITQ), Spain</i> |
| 14:54 - 15:12 | Combined XAFS/DRIFTS/MS : a powerful technique for operando catalysts investigations
Davide Salusso – <i>ESRF, France</i> |
| 15 :12 – 15 :30 | Monitoring the Formation of a Single-Atom Catalyst with Operando Quick XAFS
Franck Morfin - <i>IRCELYON, France</i> |

Wednesday, October 7th, 2026

Energy Related Materials
Amphitheatre

- 11:00 – 11:18 From Ex Situ to Operando Soft X-rays Microscopy of Photoactive Materials: Case of Hematite-based Photoanodes
Stefan Stanescu – Synchrotron SOLEIL, France
- 11:18 - 11:36 Operando XAS Strategies for Rational Design of Electrochemical Energy Materials
Francesco Paparoni - Synchrotron SOLEIL, France
- 11:36 - 11:54 Tuning Redox Chemistry in Gd-Doped Ceria: Gd-Driven Suppression of Ce³⁺ Formation in Reducing Condition
Alessandro Longo – ESRF, France
- 11:54 - 12:12 The Optical Dispersive EXAFS (ODE) Beamline at Soleil Synchrotron and Its Studies
Qingyu Kong – Synchrotron SOLEIL, France
- 12 :12 – 12 :30 Combined Operando XRD And XAS Study Of Electrochemically Active Li₂MChO Anti-perovskites
Mikhail Gorbunov - Karlsruhe Institute of Technology, Germany

Geosciences Part I
Reception Building Amphitheatre

- 11:00 – 11:18 Coupling High-Energy Resolution Fluorescence Detected X-ray Absorption Spectroscopy (HERFD-XAS) with microfluidic cells for in situ monitoring of tungsten nanoparticles redox transformation
Melanie Auffan – CEREGE CNRS, France
- 11:18 - 11:36 Vanadium enrichment in lateritic soils: mineralogical and pedoclimatic controls
Myriam Boudieb – Sorbonne Université, France
- 11:36 - 11:54 Redox speciation of cerium in the presence of colloids
Terjini Kiththangodage – IPGP, France
- 11:54 - 12:12 XAS Studies Of Metal Transport In Hydrothermal Fluids : Autoclaves And Photons
Denis Testemale – Institut Néel, CNRS, France
- 12 :12 – 12 :30 Probing the Speciation of Transition Metals (Mo, W) in Hydrothermal Fluids by In-Situ XAS
Maria Kokh - Institut für Geowissenschaften Universität Potsdam, Germany

Thursday, October 8th, 2026

Chemistry **Amphitheatre**

- 11:00 – 11:18 Unraveling the fate of anticancer gold complexes in cells through HERFD-XAFS
Tom Lacoma – Sorbonne Université, France
- 11:18 - 11:36 A short retrospective of actinide hexacyanoferrate exploration initiated at LURE
Christophe Den Auwer - Université Côte d'Azur, France
- 11:36 - 11:54 Magnetic hyperthermia at the nanoscale
Jerome Fresnais – CNRS, Laboratoire PHENIX, France
- 11:54 - 12:12 Understanding Nanoparticles Formation mechanisms at ITODYS Laboratory: Insights from investigations at ROCK Beamline
Marion Giraud – ITODYS, Université Paris Cité, France
- 12 :12 – 12 :30 Time- and Space-Resolved Formation Stannosilicates by in situ XAS
Aram Bugaev - Paul Scherrer Institute, Switzerland

Geosciences Part II **Reception Building Amphitheatre**

- 11:00 – 11:18 Redox speciation of contaminants at magnetite surface
Rémi Marsac – Institut de physique du globe de Paris, CNRS, France
- 11:18 - 11:36 Mineralogical Controls on the Fate of Emerging Contaminants in Laterites Revealed by XAFS
Quentin Bollaert – Synchrotron SOLEIL, France
- 11:36 - 11:54 Thermal transformation of clay minerals probed by in situ soft-X-ray absorption spectroscopy
Erwan Paineau – Laboratoire de Physique des Solides, CNRS, France
- 11:54 - 12:12 Assessing the Sensitivity of X-ray Absorption Spectroscopy to Distinguish Various Forms of Nucleic Acids and Their Surface Structures on Imogolite Nanotubes
Jerome Rose – CNRS CEREGE, France
- 12 :12 – 12 :30 X-ray absorption spectroscopy in surface science on LUCIA
Nicolas Trcera – Synchrotron SOLEIL, France