

Preliminary Programme

Monday, October 5th, 2026

From LURE to the 4th Synchrotron Radiation facility History and driving concepts

13:30 - 14:00	<i>Registration</i>
14:00 - 14:15	Welcome Valérie Briois, Delphine Vantelon - Synchrotron SOLEIL, France
14:15 - 14:50	TBD Pierre Lagarde, Denis Raoux
14:50 - 15:25	XAFS de surface et XAFS dispersif ; l'usage essentiel de la polarisation du photon dans le champ naissant des interfaces et multicouches Dominique Chandesris, Alain Fontaine
15:25 - 15:42	TBD Christian Brouder
15:42 - 16:00	TBD Georges Calas
16:00 - 16:30	<i>Coffee Break</i>
16:30 - 17:05	La spectroscopie d'absorption sous pression : une spécialité française, du LURE à SOLEIL en passant par l'ESRF et SLS Jean-Paul Itié, Alain Polian
17:05 - 17:40	Chemistry & XAFS@LURE at the edge of the 80s, Science, People, Driving Concepts Christophe Cartier Dit Moulin, Michel Verdaguer, Françoise Villain
17:40 - 18:15	The Journey of XAFS beamlines from the 1st to the 4th generation of Synchrotron Radiation Facilities Jean Daillant, Michèle Sauvage

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 - <i>Department of Physics. University of Washington, United States</i>
	Invited talk : Title TBD
10:00 - 10:35	Stéphanie Rossano - <i>Laboratoire Géomatériaux et Environnement, Université Gustave Eiffel, France</i>
10 :35 – 11 :00	<i>Coffee Break</i>
11:00 - 11:35	X-ray Spectroscopy at the European X-ray Free Electron Laser Sakura Pascarelli - <i>European XFEL, Germany</i>
11:35 – 11 :53	First-principles XANES calculations within the pseudopotential framework: 17 years of XSpectra Delphine Cabaret - <i>Sorbonne Université, IMPMC, France</i>
11 :53 – 12 :11	XAFS in liquids and disordered systems: early and recent advances from LURE times to today Andrea Di Cicco - <i>Università di Camerino, Italy</i>
12 :11 – 12 :29	Oral Communications TBD
12:30 - 14:00	<i>Lunch</i>
14:00 - 15:30	Parallel sessions – 2 different rooms • Disordered Materials & Cultural Heritage - <i>Amphitheatre</i> • Catalysis - <i>Reception Building Amphitheatre</i>
15 :30 – 15 :55	<i>Coffee Break</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 - <i>IFP Energies Nouvelles, France</i>
16:30 - 17:20	Exhibitors presentations
17:20 - 18:30	Poster session
18 :30	<i>Conference diner at La Coupole</i>

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 : Title TBD Jean Susini – Synchrotron SOLEIL, France
10:35 - 11:00	Coffee Break
	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
16:10 - 16:45	Dichroisms at LURE and SOLEIL Philippe Saintavrit - 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 - <i>University of Helsinki, Finland</i>
17:57 – 18:30	Hommage à Alain Michalowicz Karine Provost - <i>Institut de Chimie et des Matériaux Paris-Est. Université Paris Est Créteil, France</i>
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 : Title TBC Janis Timoshenko - <i>Fritz Haber Institute. Max-Planck-Gesellschaft, Germany</i>
10:00 - 10:35	Invited talk : Title TBD Philippe Martin - <i>CEA Marcoule, DES/ISEC/DMRC, France</i>
10:35 - 11:00	Coffee Break
	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	Tracing cadmium from soil to foodstuff using X-ray techniques Geraldine Sarret - <i>Institut des Sciences de la Terre. Université Grenoble Alpes, France</i>
14:35 - 14:53	Beyond XAS with RIXS Jean-Pascal Rueff – <i>Synchrotron SOLEIL, France</i>
14:53 - 15:11	Study of the genesis of HDS catalysts by in situ photon in photon out spectroscopy Sylvain Cristol - <i>Université de Lille, France</i>
15 :11 – 15 :29	Understand 4f covalency by ab initio calculated RIXS plane Sihan Zhang - <i>ESRF, France</i>
15 :29 – 15 :47	Tender X-ray photon-in/photon-out spectroscopy at ESRF ID26 Pieter Glatzel - <i>ESRF, France</i>
15:50 - 16:10	Coffee break
16:10 - 16:45	Invited talk : Title TBC Laurent Michot - <i>Laboratoire de physicochimie des électrolytes et nanosystèmes interfaciaux. Sorbonne Université, France</i>
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 - <i>European XFEL, Germany</i>

17 :03 – 17 :21	X-ray Absorption Spectroscopy and Diamond Giannantonio Cibir - <i>Diamond Light Source, United Kingdom</i>
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 – <i>CNPEM, Sirius, Brazil</i>
17 :39 – 17 :57	X-ray Absorption Spectroscopy meets Imaging to Unveil Inclusion Puzzles in Deep Diamonds Helio Tolentino - <i>LNLS/CNPEM, Brazil</i>
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 – <i>Synchrotron SOLEIL, France</i>
12:00 - 13:30	Lunch
13:30 – 16:30	FDMNES Tutorial - Simulation Of XANES Using The FDMNES Code Yves Joly - <i>Institut Néel, CNRS, UGA</i>

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 | X-RAY ABSORPTION SPECTROSCOPY IN SURFACE SCIENCE ON LUCIA
Nicolas Trcera – <i>Synchrotron SOLEIL, France</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
Laurent Piccolo - <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 Stanesco – 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 Comparative Pt L₃-edge XAS study of Pt nanoparticles with different morphologies in solution and tumor cells
Raul Magro Hernandez – UCM, Spain
- 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 A short retrospective of actinide hexacyanoferrate exploration initiated at LURE
Christophe Den Auwer - Université Côte d'Azur, France