## **WELCOME TO**







#### **Synchrotron SOLEIL**

L'Orme des Merisiers Départementale 128 91190 Saint-Aubin – FRANCE www.synchrotron-soleil.fr



# **DISCO**beamline

Arriving at SOLEIL	02
Your experiment	05
Practical information	11
After vour experiment	13



DISCO SRCD



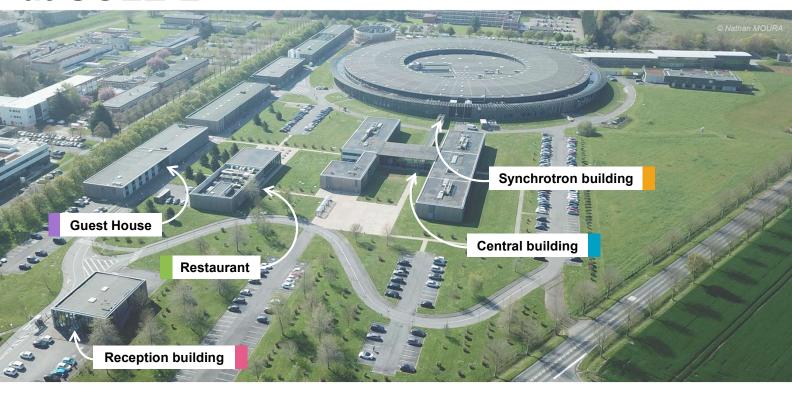
DISCO IMAGING Arriving at SOLEIL DISCO beamline

# **Arriving** at SOLEIL

### **SOLEIL RECEPTIO DESK**

Reception desk 01 69 35 91 91

 Night-guard • 06 77 20 39 83



### **BEAMLINE CONTACTS**



**DISCO PHONE**: 01 69 35 80 96



**Frédéric JAMME**Beamline manager

- O1 69 35 96 86 06 85 34 39 42
- frederic.jamme@synchrotron-soleil.fr
- Office: O1.1.21 Synchrotron building, 1st floor



Valérie ROUAM Beamline engineer assistant

- 01 69 35 **96 89**
- valérie.rouam@synchrotron-soleil.fr
- Office: O1.1.21 Synchrotron building, 1st floor



Frank WIEN
Beamline scientist

- **9** 01 69 35 **96 65**
- frank.wien@synchrotron-soleil.fr
- Office: O1.1.21 Synchrotron building, 1st floor



Hugo CHAUVET
Beamline scientist

- 01 69 35 99 38
- hugo.chauvet@synchrotron-soleil.fr
- Office: O1.1.18 Synchrotron building, 1st floor



Alessia MELELLI Postdoctoral researcher

- 01 69 35 96 59
- alessia.melelli@synchrotron-soleil.fr
- Office: O4.1.17 Synchrotron building, 1st floor



Amandine LEROY
Postdoctoral researcher

- 01 69 35 81 16
- amandine.leroy@synchrotron-soleil.fr
- Office: O1.1.18 Synchrotron building, 1st floor

Arriving at SOLEIL DISCO beamline



At your arrival, you received a badge at the Reception. This badge is needed for the following accesses 24 hours a day:

- → SOLEIL site
- → The Synchrotron building
- → The library
- → Beamline
- → Guest House
- → The support laboratories facilities if requested

# **GUEST HOUSE**

During your stay, the management strongly recommends you to keep your valuables in the safety deposit box at your disposal in the room.

For non-subsidized participants, **a financial contribution of 55€/night** (including VAT) is required. It does not include breakfast.

On the day of your arrival, check-in should be done **after 15:00**.

On the day of your departure, please check-out **before 12:00**. If necessary, a luggage room is at your disposal on the first floor of the building.

Outside opening hours and if the manager is not available, please contact SOLEIL's reception desk ( 0 1 69 35 91 91).

Reminder:

It is **forbidden** to drink **alcohol** at the Guest House.

#### **Guest House manager:**

**9** 01 69 35 **82 00** 

hebergement@synchrotron-soleil.fr

Week Opening hours:

8h00 - 12h30 & 13h30 - 18h30

Week-ends Opening hours:

8h00-12h30



# GENERAL INFORMATION



SOLEIL inside calls:

dial the four last numbers.

**External calls from SOLEIL:** 

add "0" before dialling the number.



**Emergency contact inside SOLEIL:** 

🕓 Red phone or dial 18 from a SOLEIL landline.

### **RESTAURANT**



	During beamtime periods		During machine shut down periods		
	Monday to Friday	Week-end & public holiday	Monday to Friday	Week-end & public holiday	
akfast	7:30-9:00				
nch	11:45-13:45 closed at 14:15*	<b>12:30-13:30</b> closed at 14:00*	<b>12:30-13:30</b> closed at 14:00*	Closed	
nner	<b>19:00-20:00</b> closed at 20:30*	<b>19:00-20:00</b> closed at 20:30*	Closed		

#### **Meal tray content:**

#### LUNCH/DINNER

#### **BREAKFAST**

Brea

Lu

Dir

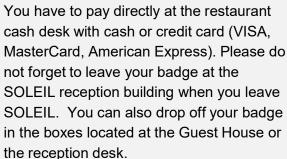
- → 1 hot drink
- → 1 orange juice
- → 1 bread
- → 1 piece of delicatessen or cheese
- 1 pastry
- → 1 fruit or 1 yogurt
- → Jam/butter/honey

- → 1 starter
- → 1 main course
- → 1 cheese/1 yogurt

\*Please respect the closing hours

- 1 dessert
- 1 individual drink
- → 1 coffee/1 tea

#### For your meals expenses:



#### → Subsidized participant:

A subsidized badge means that Synchrotron SOLEIL takes in charge all your meals at SOLEIL's restaurant.

#### → Not-subsidized participant:

A non-subsidized badge means that you have to pay for your meals at SOLEIL's restaurant. The cost of one meal includes food and charge for admission.

### **PICARD Snack Bar**

A vending machine for individual prepared meals, as well as microwaves, are available in the SOLEIL restaurant, providing convenient and flexible access at any time of the day or night, 7 days a week (accessible during the beam shutdown).

Prices range from €2.85 to €6.95 including VAT, with a new offer every 3 to 4 weeks.

This turnkey service is accessible to people with reduced mobility (PRM).



# Your experiment

BEAMLINES
AND SUPPORT
LABORATORIES MAP

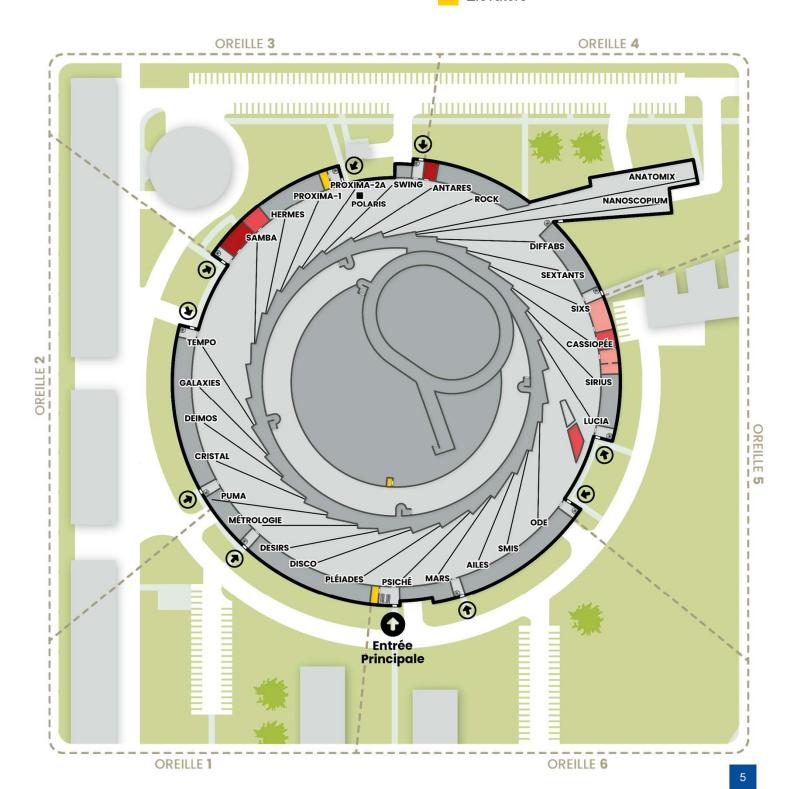
Biology Lab 1 & 2

Chemistry Lab 1, 2 & annex

Materials' Lab

Entrances

Elevators



### **USER'S CHARTER**

#### **Local Contact Duties:**

One of the scientists of the requested beamline is assigned to your project and acts as Local Contact. That person's contact information is included in your Experiment Invitation Letter. For the benefit of your experiment, you are strongly encouraged to contact your Local Contact as soon as possible in order to discuss your experiment to set up and/or specify any particular requirement you may have.

#### The Local Contact:

- → ensures the beamline is properly set-up to perform your experiment(s),
- → provides sufficient training and support for your team to efficiently and safely operate the beamline,
- → helps to handle the sample environment set-up.

Outside working hours (typically from 8:30 a.m. to 5:30 p.m. on weekdays) the users are asked to contact the Hall Coordinator (9797) for all matters. The Hall Coordinator may ask for an intervention from the Local Contact, but only from 5.30 p.m. to 11.00 p.m. on weekdays and 8.00 a.m. to 8.00 p.m. on weekends and holidays.

#### **Users' Duties:**

- → All users must perform the on-line Safety Training before starting the experiment.
- → The samples that are brought to SOLEIL must comply with those mentioned in the accepted proposal. Exceptionally, a complementary list of samples may be declared in the SUN set but it must be approved by the safety group and the beamline staff prior to the beam time (safety forms' function in the SUN set).
- → All the people who will take part in the experiment have to be declared by the main proposer within the imposed time limit.
- → It is the responsibility of the users to provide sufficient human resources to operate the beamline 24 hours a day and perform experiments throughout the entire beam time. The users are requested to leave the experimental areas, the working spaces of the beamline and the support laboratory as clean and tidy as they found it when they arrived.
- → Upon beam time completion you are requested to submit an "end of run report" and an "experimental report" through the SUN set. Failure in providing the latter report may be detrimental to future beam time allocation by the Peer Review Committees.

#### **Collaborations:**

Users and beamline scientists may wish to collaborate on a subject of common interest. This agreement should occur before the beginning of the experiment on the beamline(s).

## Publication (general rules outside collaboration schemes):

- 1. Results from experiments performed at SOLEIL (except for proprietary data) should be published.
- Publications: technical aspects related to the facility should be checked by beamline staff prior to the publication. All confidentiality rules will be respected by SOLEIL staff.
- 3. All publications resulting from work at SOLEIL must include a clear reference to all the beamline(s) and support labs used for the experiments, as well as the corresponding proposal numbers, and include acknowledgments using the following sentence: "Experiments were performed on the "XXXX" beamline(s) {using the "yyy" support lab} at SOLEIL Synchrotron, France (proposal number(s) YYYYxxxx, ...)."

The contribution of the beamline staff should be fairly recognized in the publications or in the acknowledgments, such as:

- "We are grateful to {Local Contact name} for assistance and to the SOLEIL staff for smoothly running the facility." Support from external sources (EC, national or international grants, etc....) should also be clearly mentioned. A similar acknowledgement should be included at conference presentations, including proceedings, and at any other public presentations. If the publication also includes data collected at another synchrotron, please indicate which experiments were made at SOLEIL and elsewhere.
- 4. We remind you that we need your cooperation in keeping track of all publications resulting from research carried out at SOLEIL. References of publications should be deposited via the SUN set. Your publication record is made available to the Peer Review Committees for future beam time applications. We would strongly appreciate that you send a reprint to the SOLEIL library.

## **SAFETY CLASSIFICATION OF PROJECTS**

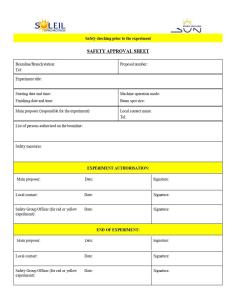
- → Green (no danger): experiment can be carried out.
- → Yellow (specific danger): safety checking prior to the experiment beginning is required.
- → Red (identified danger): safety checking prior to the experiment beginning is required and the presence of one user is mandatory on the beamline at any time.

#### Some safety rules:

- No experiment classified red will start on the week-end or during the night.
- No matter how the experiment is classified, safety group can check at any time the experiment while running.
- Safety Group reserves the right to stop the experiment if safety rules are not respected.
- If the experiment is classified yellow or red, the following particular set up has to be observed: the experiment cannot start if the Safety Approval Sheet has not been signed by the user, the hall coordinator and the safety group.

If the experiment is classified green, the signature of the Safety Approval Sheet (SAS) by the safety group







## COMPUTING



#### **Computing information:**

You will be able to connect yourself to SOLEIL's Experiences network and to achieve the following operations during your stay with your login (User Name), your SUN set password and your proposal number:



- → Web navigation
- → To consult your emails
- → To recover or treat your data after the experiment

The WiFi network is available with your personal laptop in the Guest House, meeting rooms, Auditorium and library. Choose the "Guest" network and connect yourself with your SUN set ID and password. WiFi is also available via your EDUROAM account.

You can either connect yourself with a beamline computer or with your personal laptop. In this case, the preliminary identification of the lap-top is mandatory: the lap-top MAC address must be declared in your personal information in the SUN set.



#### **User computing charter:**

Every user must respect the following User computing charter:

The use of Synchrotron SOLEIL Information Systems is restricted to a personal and non-transferable access right. Every user is responsible for the use of computer resources for which she is granted access to. She must respect SOLEIL IT Systems general security rules, notably by respecting the following recommendations:

- → Choose secure passwords; never disclose them.
- → Disconnect yourself or lock your account when leaving your workstation.
- → Backup your data using personal devices or SOLEIL provided services.
- → Protect your personal workstation with antivirus software, updating it on a daily basis.
- → Do not provide access to SOLEIL systems or networks to unauthorized users through the sources you use.
- → Follow current rules within SOLEIL pertaining to software installation or connection of any device to the network.

Users are also reminded that:

- → It is forbidden to use SOLEIL computer resources, including Internet and e-mail services, outside your field of activity, in particular for private, profitable or playful purposes.
- → The user makes a commitment not to disturb normal behaviour of network and computer systems, be it through abnormal use of equipment, subversion of security systems, or introduction of malicious software (viruses, Trojan horses, logical bombs...).

For maintenance and technical management purposes, usage of hardware or software resources, as well as network communications, can be monitored and analysed, according to French applicable legislation.

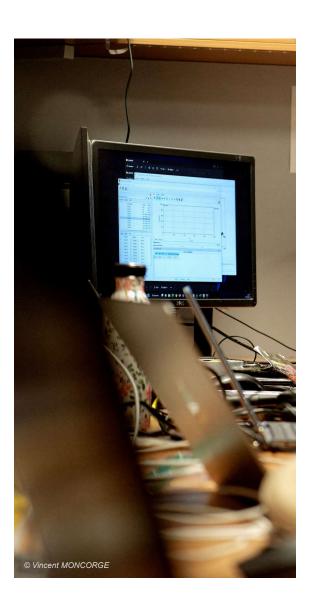
### **GRADES**

The data Reduction and Analysis Group (GRADES) gives support regarding scientific software, methodologies and computing resources to users.

- · help to prepare experimental projects,
- bring a wide set of software and methodologies during experimental beam-time,
- provide access to software and computing resources to treat the acquired data.

Our services are available to all scientists that already came at SOLEIL or have a validated participant list for an experiment. Use your SUN set ID.

For further details please see <a href="https://www.synchrotron-soleil.fr/en/users/experiment-carry-out-project-soleil/network-and-computing-requirements#GRADES-EN">https://www.synchrotron-soleil.fr/en/users/experiment-carry-out-project-soleil/network-and-computing-requirements#GRADES-EN</a>



## GLOBUS

Experimental data can be transferred from SOLEIL synchrotron to an external location via the GLOBUS web service (https://www.globus.org).

Any user of SOLEIL can retrieve his own data from a past session, provided these data have been saved in the corresponding beamtime session folder on the SOLEIL storage (/beamline\_name-users/project number, e.g. /swing-users/30281133).

Documentation on the usage and troubleshooting instructions of the GLOBUS web services are available within the user portal (<a href="https://sun.synchrotron-soleil.fr">https://sun.synchrotron-soleil.fr</a>) under the tab "Experiment Data".

Every user requesting to use this service is requested to own an ORCID identifier (<a href="https://orcid.org">https://orcid.org</a>), valid SUN set identifiers, being a participant of the project that produced data at SOLEIL and that data were stored in the corresponding project storage location as explained above.

# LABORATORIES ACCESS



The main proposer has to confirm access request to the respective support laboratories after the proposal has been scheduled by the beamline and to get has in touch with the manager of the concerned laboratory as soon as possible.

All visitors bringing material, including samples or equipment to SOLEIL, are advised that such equipment or material remains entirely under their responsibility.

Warnings and indications in the laboratory must be respected. Individual protection against hazardous substances must be used for any handling (lab-coats, gloves, glasses, closed shoes and working under fume hood if necessary).

Any waste must be disposed of in suitable containers (separation of flammable products, acids, basics, solvents, carcinogenic, harmful or toxic substances...).

#### Access Mode:

Secured access and with badge: when you arrive, please contact the head of laboratory concerned. (Exceptionally outside this schedule please contact the beamline manager or the local contact).

Please read the basic security instructions of laboratories (electricity, constraints, and experiments: <a href="https://www.synchrotron-soleil.fr/en/users/current-call-proposals/safety-classification-requirements-and-training">www.synchrotron-soleil.fr/en/users/current-call-proposals/safety-classification-requirements-and-training</a>





#### Safety instructions:

It is strictly forbidden:

- → To modify or intervene on laboratory installations and instruments without prior and formal authorization by the manager of the laboratory,
- → To work alone in the laboratory.
- → To drink or eat in the room.



#### Samples:

- → Each sample must be identified and specifically declared according to its nature,
- → All chemicals and materials necessary for samples preparation have to be declared on-line (SUN set).
- → Each sample or handled (bio)chemical product has to be labelled. The following information has to be mentioned:
  - The name of the product,
  - · The date,
  - The name of the project and phone number of the person to be contacted.

# ACCESS TO BIOLOGY LABORATORIES

**O** Location in Synchrotron building:

- → BIOLAB1: O4.0.01 ground floor
- → BIOLAB2: O3.0.01 ground floor



#### Safety requirements:

- → Only biological and biochemical materials approved by the safety group of SOLEIL synchrotron can be used.
- → Handling biohazardous chemicals alone in the laboratory is forbidden.

Biology laboratory 1: dedicated to the preparation of samples for experiments carried out on beamlines (equipment dedicated to last step purification and/or characterisation).

Biology laboratory 2: access request to this laboratory must be justified by specific needs or applications, and when the equipment is not available in the biology lab 1. The decision will be made by the Biology lab manager.



**Gabriel DAVID** 

BIOLABs Manager / BIOSAFETY Manager

- **9** 01 69 35 **97 35** 06 08 68 57 00
- gabriel.david@synchrotron-soleil.fr



Blandine PINEAU BIOLABs Assistant engineer

- **9** 01 69 35 **97 73**
- blandine.pineau@synchrotron-soleil.fr

# ACCESS TO CHEMISTRY LABORATORIES

#### O Location in Synchrotron building:

- → Office: O4.1.13 first floor
- → CHEMLAB1: O3.0.02 ground floor
- → CHEMLAB2: O5.0.02 ground floor
- → CHEMISTRY Annex: between ODE and LUCIA beamlines - ground floor



#### Safety requirements:

- → Only gases and chemicals approved by the safety group of SOLEIL synchrotron can be used.
- → Handling hazardous chemicals alone in the laboratory is forbidden.
- → You have to respect the instruction and the safety rules in each chemistry laboratory.

The user's choice between Chemistry lab 1 and Chemistry lab 2 depends on the location of the beamline where the experiment is carried on, because of the long beamlines (NANOSCOPIUM, ANATOMIX, PUMA), which force users to use the stairs to reach their laboratory. To a lesser extent, the choice between the two labs depends on the equipment that is needed for the samples' preparation and whether it is present in the laboratory or not. (For example the glove box is only available in the chemlab2).

The two laboratories are dedicated to the preparation of samples for experiments carried out on beamlines.

CHEMISTRY annex (located between LUCIA and ODE beamlines) is dedicated to the characterization of materials in complement of the synchrotron techniques (XRD, UV-Vis, Raman spectrometers...). To obtain access, it is necessary to ask for "chemlab 2" and contact the laboratory team.



Stéphanie BLANCHANDIN

- Manager
- **9** 01 69 35 **96 85** 06 70 39 03 97
- Stephanie.blanchandin@synchrotron-soleil.fr



Karine CHAOUCHI Assistant engineer

- **9** 01 69 35 **97 40**
- karine.chaouchi@synchrotron-soleil.fr

# ACCESS TO MATERIALS' LABORATORIES

#### O Location in Synchrotron building:

- → Surfaces laboratory: O5.0.01 ground floor
- → High pressure laboratory: 05.0.03 ground floor

laboratoire > < MATERIAUX

The main proposer has to apply on the SUN set to get access to laboratories support facilities. If the main proposer fails to contact the Materials' Laboratory Manager, the access to the lab will not be granted.



#### Safety requirements:

- → Only gases and chemicals approved by the safety group of SOLEIL synchrotron can be used.
- → An individual protection must be used (lab-coat, gloves, glasses, closed shoes and working under fume hood if necessary) for any handling which requires it (liquid gas handling, cutting of sample, etc).
- → You have to read and sign the Users' Manual before working in the Laboratory and give it back to the laboratory staff.



Stefan KUBSKY

#### Manager

- 01 69 35 96 41
- stefan.kubsky@synchrotron-soleil.fr
- Office: 04.1.12 Synchrotron building, 1st floor



**Mathieu CHEVROT** 

Laboratory assistant engineer

- 01 69 35 97 84
- mathieu.chevrot@synchrotron-soleil.fr
- Office: 04.1.12 Synchrotron building, 1st floor



**Biology lab** 



**Chemistry lab** 



Materials' lab

Practical information DISCO beamline

# Practical information

USER OFFICE

Opening hours: 8:30-12:30 / 13:30-17:30 Monday to Friday (Central building)

useroffice@synchrotron-soleil.fr

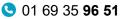


Frédérique FRAISSARD
Head – User office





Camille ENJOMMET
Administration





France ROUET Administration

**O** 01 69 35 **96 90** 



More information available online on SOLEIL Users Net (SUN). You will find in particular, the 'Users general guide', the 'Proposal guide' and the SUN set (available using your login and password).



Website: <u>sun.synchrotron-</u> <u>soleil.fr/sunset/bridge/sunset/</u>





### HALL COORDINATORS

Call number in case of equipment failure during runs:

**9** 01 69 35 **97 97** 

The hall coordinators team is in charge of:

- → Providing technical support and service to beamline users in case of equipment failure.
- → The diagnosis and repair of beamline equipment.
- → Contacting specialized technical service groups for land-line and onsite diagnosis and repair.

Practical information DISCO beamline

# USEFUL INFORMATION

#### 1. Closest Hotel:

Hôtel Les Chevaliers des Balances

- Place de la Mairie, 94190 St Aubin
- +33 1 69 41 20 55

#### 2. Cash dispenser:

Société Générale

4 Mail Pierre Potier - 91190 Gif-sur-Yvette

#### 3. Day doctors (during working hours):

Pôle médical de Moulon:

- 2 Allée des Marguilliers, 91190 Gif-sur-Yvette
- S +33 1 69 85 33 13 or +33 1 53 66 64 27

#### 4. Pharmacy:

**Delmas Pharmacy** 

- **9** +33 1 69 07 50 53

#### 5. Orsay hospital:

Standard

+33 1 69 29 75 75

**Emergencies** 

S +33 1 69 29 75 62 or +33 1 69 29 75 63 (secretariat)

#### **Emergency contacts outside SOLEIL:**

Emergency services\*

**9** 15

Police\*

17

Fire brigade\*

18

European emergency call\*

112

Poisons information center

**(** +33 1 40 05 48 48

\* Toll free number

#### Night doctors & week-ends:

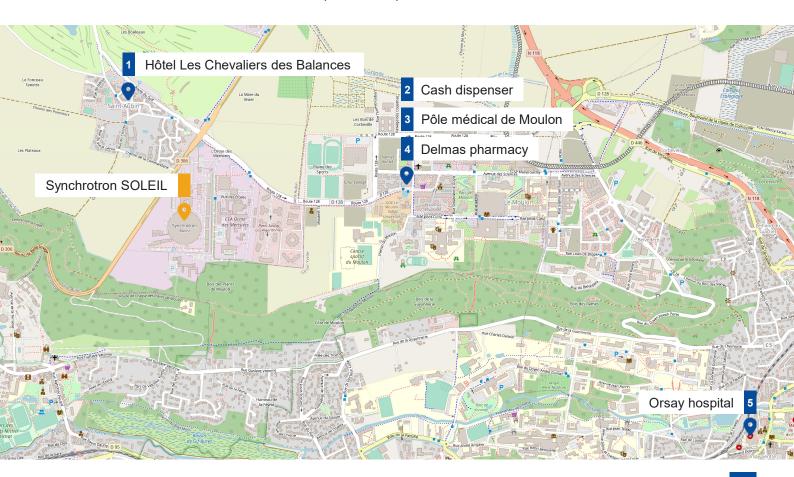
Emergency

 +33 8 26 88 91 91 SOS week-ends and at night

#### Taxi:

Les Ulis

+33 1 69 07 48 88



# After your experiment

# DEPARTURE FROM SOLEIL



#### Before your departure please respect the following rules:

- → Leave the beamline and all experimental areas you had access to (hutches, laboratories...) as clean as they were when you arrived. Concerning specific beamline requirements about cleaning aspects and waste disposal please see the beamline users' Manual available on the beamline.
- → Prepare samples and equipment for shipping,
- → Please do not forget to give back your badge at SOLEIL Reception Building at your departure. You can also deposit your Guest House and SOLEIL access badge in the boxes that are located on the Guest House desk and on the Reception desk.

## END OF RUN REPORT

As soon as the experiment is over, we kindly ask the main proposer to write the end of run report (available on the SUN set clicking on 'End of run reports', in the section 'Proposals') about the experiment work and your stay. It takes just a few minutes!

# EXPERIMENTAL REPORT

We remind you that for any project submitted to Peer Review Committee, an **experimental report** must be written in English and submitted on the SUN set.

Failure to provide such report may prevent the proposers from being allocated beam time for the continuation of the proposal or for a new proposal.

## **PUBLICATIONS**

Do not forget to submit as soon as possible your publication on-line in the SUN set. Please send the reprint to SOLEIL library by e-mail.

#### Jean-Marc LUCACCHIONI

Library

- **O**1 69 35 **96 96**
- jean-marc.lucacchioni @synchrotron-soleil.fr
- Office: A2.0.39 Central Building, 1st floor

