

# Access to the ESRF

## Current Procedures & Future Needs

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# ESRF General Overview



**12 member and 6 associate member countries**

**Staff : 610 people**

**Annual Operation Budget : ~80 M €**

**Annual User Budget : ~1.35 M €**

**Instruments : 42 beamlines**

**~ 2000 proposals / year**

**~ 900 awarded beamtime**

**> 1500 experimental sessions / year**

**> 6000 visitors / year**

**~ 1500 publications / yr**

**Typical experiment duration : 8 hours to 1 week**

# Current ESRF Procedures

## Scientific Management Information System : SMIS

### SMIS - Scientific MIS



by [Stefan Schulze](#) — last modified 26-02-2008 08:47

#### SMIS

The Scientific MIS is a web-oriented software project which enables the world-wide ESRF user community to:

- Apply for beam time at the ESRF ([User Utilities](#))
- Prepare for carrying out experiments ([A Form](#))
- Submit and view experimental reports ([User Utilities](#))
- Register for scientific workshops and conferences at the ESRF ([Event Registration](#)).

In addition, the SMIS team develops intra- and internet applications for the following user groups:

- User Office, CRG office, ICU office and Safety group: [ESPAS](#), [Admin. Utilities](#), [CRG Admin Utility](#), [CRG external access](#)
- Review Committee members: [Review Committee Registration](#), [Review Committee Grading](#)
- Beamline Scientists: [Beamline Scientists](#)
- Personnel Service: [Personnel](#)

The new [SMIS Web Client](#)

is currently under development and will replace all existing SMIS applications in the future.

Currently it can be used to:

- Manage your own SMIS account
- Manage the beamline schedule for some selected beamlines (see also the demos: [view schedule](#) and [edit schedule](#))

Please note that the SMIS Web Client can also accessed from outside the ESRF: [External Link](#).

You can have access here to the [TEST SMIS Web Client](#).

# Current ESRF Procedures

## SMIS Utilities

- ✓ User Utilities
- ✓ Beamline Scientists Utility
- ✓ Personnel Utility
- ✓ Review Committee Registration
- ✓ Review Committee Grading
- ✓ Admin. Utilities
- ✓ CRG-specific Utilities
- ✓ Event Registration

## SMIS Web Client

(ESRFUP WP9 : New Scientific Management Information Software)

For User : From proposal submission to deposition of experiment report

For administrative staff : From proposal submission to User reimbursement

Finance, beamline, publication databases are separate

# SMIS Web Client

Welcome Joanne MCCARTHY  
 Welcome Agnes CARLET  
 Welcome Agnes CARLET  
 Welcome Agnes CARLET  
 Welcome Joanne

[Accounts](#) [Exp](#)

**Welcome to**

You will follow a  
 questions at the

*This course must be*

**You didn't perform**

To perform your saf

[French Version](#)

[Previous](#) [Next](#)

ESRF Safety Training \_ Users  
 Version: 05/02/08

Welcome to the ESRF safety training for Users.

You are going to follow an obligatory safety training course which deals with the ESRF's general procedures, as well as more specific procedures linked with experiments.

In order to ensure that you have correctly understood the information given in this training, a few questions will be asked at the end. You must reply correctly to these questions in order to be authorised to carry out your experiment at the ESRF.

This safety training course must be followed every 12 months.

# SMIS User Utilities

EUROPEAN SYNCHROTRON RADIATION FACILITY

## Electronic Utilities Application for ESRF Users - Samples for Proposal/Experiment

- Several Proposals/Experiments for which you may need to submit Sample Sheet(s) exist in the ESRF database. If some Sample Sheets were already submitted for the highlighted Proposals/Experiments, you should see them in a table below.
- You can submit new Sample Sheets, view or delete any existing one for the highlighted Proposal/Experiment.
- You can also resubmit previously submitted Sample Sheets (\*) you are allowed to resubmit samples linked to Proposals/Experiments for which you have been either Main Proposer, Co-Proposer or User.
- To select another Proposal/Experiment, click on the button in front of the Proposal/Experiment.

In the table below, the proposals Submitted but not finalized are displayed with a "S".

<input type="checkbox"/>	<input type="checkbox"/>	Proposal HE 955	Separation of spin and orbital magnetisation
<input type="checkbox"/>	<input type="checkbox"/>	Proposal MI 390	X-ray magnetic scattering from a powder sample
<input type="checkbox"/>	<input type="checkbox"/>	Proposal HE 446	Temperature-dependent magnetic moments
<input type="checkbox"/>	<input type="checkbox"/>	Proposal HE 444	An investigation of the spin density in Fe <sub>2</sub> C

- Lys (MX-415)
- MTHase (MX-415)
- tryp (MX-415)
- P4H (MX-415)
- CMY-10 (MX-415)
- II (MX-415)
- hAG-3 (MX-415)
- SMhAG3 (MX-415)
- LR1875 (MX-415)
- LRM20 (MX-415)
- LR325 (MX-415)
- LR1780 (MX-415)
- A315S (MX-415)
- bsec (MX-415)
- HCC (MX-415)
- HYP (MX-415)
- RBCX (MX-415)
- MYO (MX-415)
- NODS (MX-415)
- FBP (MX-415)
- HYP (MX-415)

ed with an "F".

Measurements on SmMn <sub>2</sub> Ge <sub>2</sub> in low temperature ferromagnetic phase.
V45 determined via magnetic Compton scattering.
ing magnetic compton scattering.

NO SAMPLES v

Add New

Proposal HE 955

al HE 955

Previously Submitted Sample Sheets(\*) :

HYP (MX-415)

Add This Sample To The Current List


Gen. Tasks

Logout

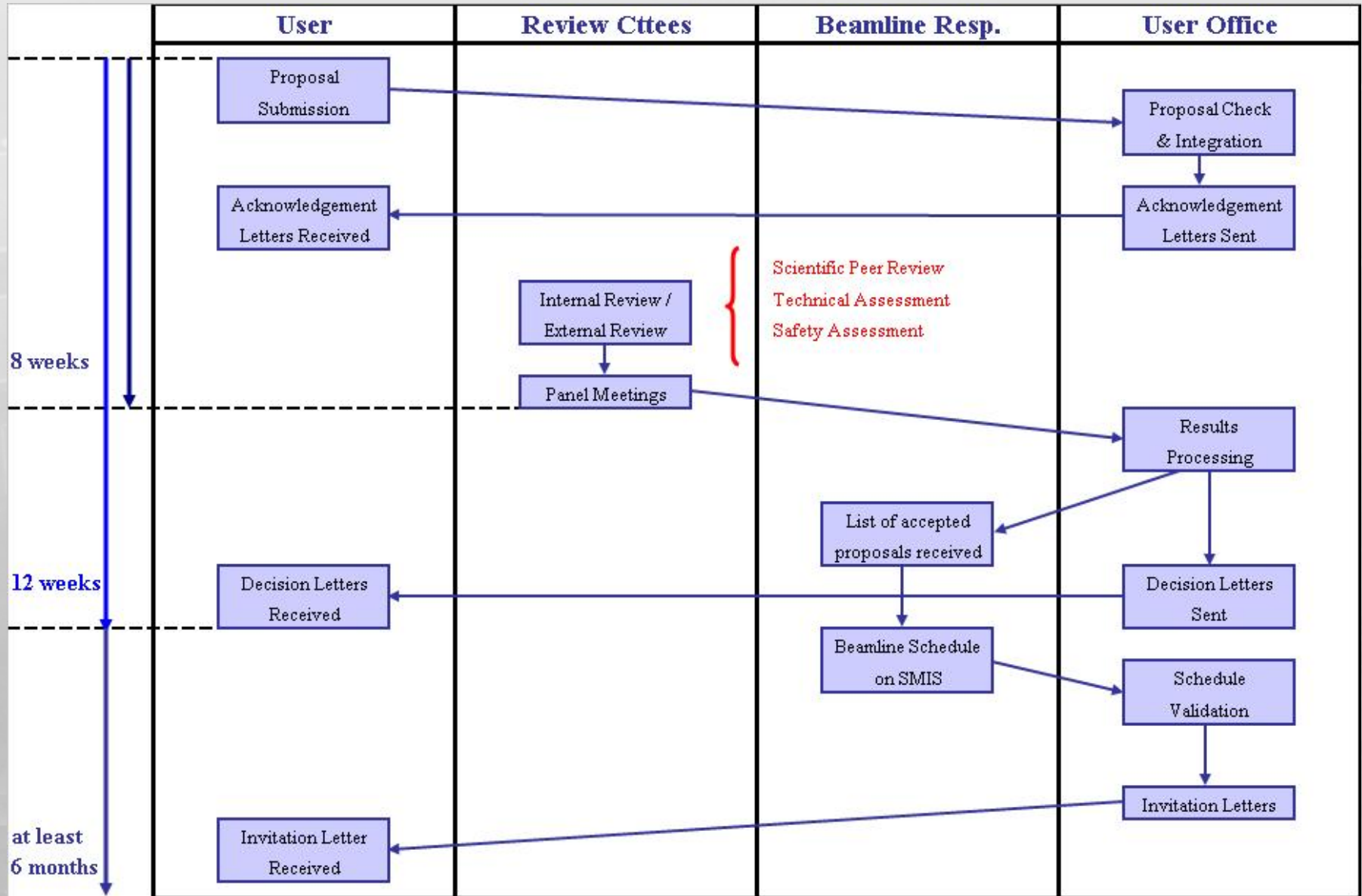
Compton scattering.

# SMIS User Utilities

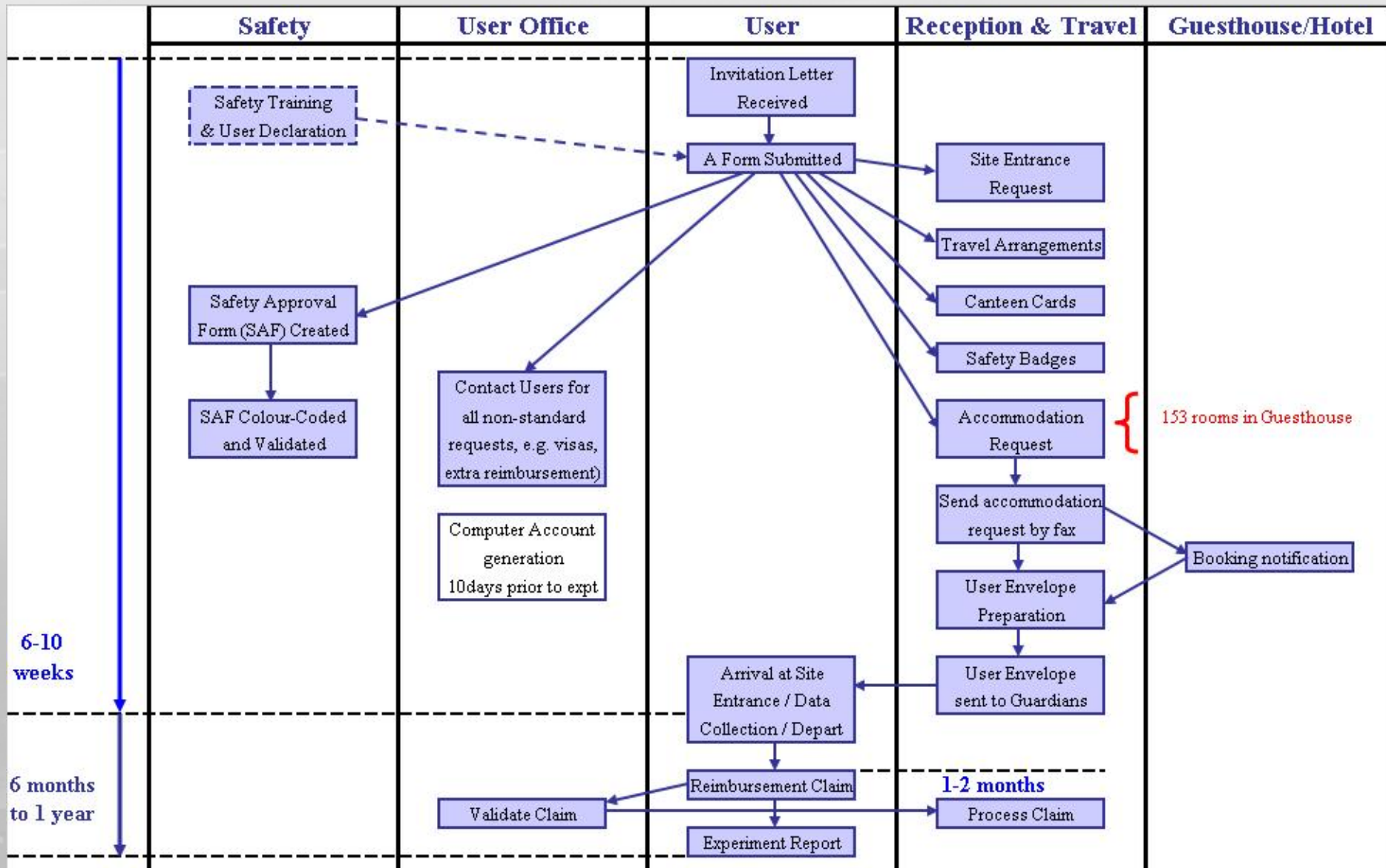
**Proposal Forms**



<input type="checkbox"/>	<b>Standard ESRF Proposal</b> (deadline: 1st September 2008)	<a href="#">Help, Guidelines &amp; Exp. Meth. Templates</a>
<input type="checkbox"/>	<b>Macromolecular Crystallography NON-BAG Proposal</b>	<a href="#">Help, Guidelines &amp; Exp. Meth. Templates</a>
<input type="checkbox"/>	<b>Macromolecular Crystallography BAG Proposal</b>	<a href="#">Help, Guidelines &amp; Exp. Meth. Templates</a>
<input type="checkbox"/>	<b>Long-Term Project</b>	<a href="#">Help, Guidelines &amp; Exp. Meth. Templates</a>
<input type="checkbox"/>	<b>CRG Proposal:</b> <input type="text"/>	<a href="#">Help, Guidelines &amp; Exp. Meth. Templates</a>
<input type="checkbox"/>	<b>Industrial Experiment:</b> <input type="text"/>	<a href="#">Help, Guidelines</a>
<input type="checkbox"/>	<b>Test Crystal Form</b>	<a href="#">Help, Guidelines</a>







# Other Databases

- Finance : FMIS
- Publications Database : Managed by ILL/ESRF Library
  - joint database for both facilities
  - linked to ESRF electronic proposal submission and MX BAG reports
- Beamline Databases : specific to beamline
  - e.g. ISPyB – beamline database for MX beamlines (used by ESRF, Diamond...)
    - linked to SMIS database for experiment session and samples info
    - beamline database includes experiment (proposal?) info, not vice versa
- .....

# ISPyB : Example of linking beamline and UO databases

The screenshot displays the ISPyB web interface for a data collection session. At the top, there are two side-by-side image thumbnails showing a biological specimen. Below them, the 'Expected Snapshot location' is listed as `/data/pyarch/id14ch1/mx345/20070509/gilbaon/lig2-HA00A15925_1_1_anapaht.jpg`.

The main content area is titled 'Image collected' and shows a table of collected images. The table has columns for 'Image', 'Image name', 'Date', 'Message', and 'Comments'. The 'Image' column contains small circular thumbnails of diffraction patterns. The 'Image name' column lists files like `lig2-HA00A15925_1_001.img`. The 'Date' column shows 'May 9 15:07'. The 'Message' column contains technical details: 'Synchrotron current: 55 mA' and 'Temperature'. The 'Comments' column includes 'Delivery: Next Refill at 23:00;'. There are three rows of data in the table.

On the left side, there is a 'Data collection' sidebar with a menu of image names, including `lig2-HA00AJ6`, `ref-lig2-HA00AJ6`, `ref-lig2-HA00AJ6`, `ref-lig2-HA00AJ6`, `ref-lig2-HA00AK1`, `ref-lig2-HA00AG1`, `ref-lig2-HA00AG1`, `tmgha-HA00AG1`, `ref-tmgha-HA00AG1`, and `ref-tmgha-HA00AG1`.

On the right side, there are various controls including 'Settings', 'Tools', and a vertical list of buttons labeled 'Seems' and 'centering'.

# Future Needs – ESRF Side

- ESRF Upgrade Programme
  - effect on number of experiments / visitors ?
  - scientific areas benefitting from complementary techniques ?
    - Structural biology (SAXS, SANS, X-ray / n-diffraction, low res. n-scattering...)
    - Soft condensed matter studies
    - Magnetic scattering (X-ray / n-diffraction...)
    - Materials science....
- Joint Consortia
  - PSB, possible Soft Condensed Matter consortium, ...
- Joint proposals or linked proposals for both facilities
- Common Site Entrance for ILL and ESRF
- Open possibilities to pan-European approach (transparency for Users...)
- ...

# Conclusion

- “Unique site for scientific research and centre of excellence”

## Points to address today...

- ? impact and benefits/drawbacks of a single entry point (users, experiments, results and publications)
- ? criteria and framework for a single point entry system able to function between the ESRF and ILL
- ? joint application - which scientific areas could benefit most and could be promoted with joint applications for both ESRF and ILL time
- ? Anything else....?

# Thank You for your attention!

