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22nd MEETING OF THE SNX COUNCIL

Grenoble (France)

Tuesday 18th and Wednesday 19th November 2014

SNX Council Meeting

Mr. Chairman welcomed everyone.

Mr. Chairman reported that **Magnus RONNING** apologized for not being able to attend this meeting. **Karina MATHISEN** has been appointed by the Norwegian Steering Group to be the Deputy of **Magnus RONNING**.

Piero MACCHI is also unable to attend this meeting.

1. Approvals and Review [G. Chapuis]

1.1. Approval of the Agenda

After discussion, the Agenda was unanimously approved, see Agenda, **Appendix No. 1**.

1.2. Approval of the minutes of the 21st SNX Council

The Minutes of the 21st SNX Council were approved unanimously.

2. Financial Matters

2.1. Income and Spending 2014 [C. Heurtebise]

See presentation and documents e-mailed to SNX participants included in **Appendix No.2**.

Documents e-mailed :

- Administrative Report as of October 2014
- Income 2014
- Spending "compte d'exploitation" as of October 2014
- Orders as of October 2014
- Reserves as of October 2014

The committee requested to indicate clearly the amount transferred on Reserves for the set up of beam line BM31 (BM1B) and establish a list of the spendings. An updated table has to be presented during the next SNX meeting.

2.2. Budget 2015

[V. Dmitriev]

See presentation and documents in **Appendix No.3.**

The budget was approved by all.

3. Report of the SNX Chairman

This item will be dealt with under point 4.

4. Report of the SNX Operations

4.1. SNX and A-SNG operations

[V. Dmitriev]

See Vladimir DMITRIEV's presentation in **Appendix No.4.**

Beam Time Statistics

Administrative Actions

- a) CoF 2 ETH Zurich, Switzerland (20.10.2014)
- b) Transferring SNBL's BM1B station to the vacant BM31 infrastructure (ESRF SAC)

Increase the Visibility of the SNBL

- a) PETRA III Extension Project - July 2014
- b) UM14 – September/October 2014

New Post Doctoral Fellows

- a) B-Station - Michela BRUNELLI started on 17th November 2014, replacing Paula ABDALA.
- b) A-Station - still in process. Employment is planned beginning of January 2015.

Vladimir DMITRIEV was thanked for his presentation.

4.2. Beamline A: Operations

[P. Pattison/ D. Chernyshov]

See Dmitry **CHERNYSHOV**'s presentation *in Appendix No.5*, presentation done in collaboration with **Philip PATTISON**.

- Diffraction platform BM1A – current status and technical progress
- Control software – Vadim DYADKIN, Roberto HOMS
- Data processing – Vadim DYADKIN, joint project with DUBBLE

Data flow: Workshop scheduled in April 2015 “Big data for small molecule crystallography”. This workshop will be jointly organized and supported by ESRF (Alexei BOSAK, Claudio FERRERO) and SNBL (Dmitry CHERNYSHOV)

- Automation of complex experiments
- Beam manipulations: diagnostic, alignment, focusing ...
- Collaborative projects

With Users groups

- 1) Routine combination of X-ray / UV optical / Raman spectroscopy - Coordinator K.K. Andersson
Visiting scientist – Hardware development completed
Wouter VAN BEEK and Åsmund RØHR
- 2) Software development for kappa-goniometer on PILATUS@SNBL
SNBL / Uni Stavanger
Coordinator - H B LARSEN

With external institutions

- 1) Sharing of beamtime and other resources
collaboration with DUBBLE – ongoing
 - 2) Joint projects for developing diffraction and EXAFS techniques
MoU with MaxIV Laboratory
 - 3) Visit to SNBL by MaxIV scientists from BALDER beamline
 - 4) Measurement of diffuse and Bragg scattering under electric field
XMAS CRG at ESRF and University of Manchester
- Recent publications and highlights
 - Long-term developments :
Planning for operation of BM01 after BM1B moves in 2016
Preserve current functionality
Make use of two hutches available
Upgrade of beamline optics

Dmitry CHERNYSHOV was thanked for his presentation.

Helmer FJELLVAG thanked the team for the progress and the very good improvements on the beamline.

4.3. Beamline B: Operations

[H. Emerich]

See **Hermann EMERICH's** presentation in **Appendix No.6.**

- SSD status
- New amplifiers for EXAFS Spectrometer

- EXAFS - Fast Scanning Option repair
- Gas-Mixing- Rig Status
- Appointment of new SNB Postdoc
- Some scientific results
 - Multivariate Curve Resolution (MCR) applied to *in situ* X-ray absorption spectroscopy
 - Experiments on batteries
 - Software
- Moving SNB to BM31 Port
 - Time Table :
 - Preliminary hutch design study finished and communicated to the ESRF
 - Construction of hutches and the ("new") ESRF front end in the winter shutdown 2015/16
 - Moving the existing SNB beamline components to their new location in spring/summer 2016
- Open questions
 - Raman spectrometer ?
 - Gas (Bottle) Rig ?
 - New Front End Design using CRL's ?

Herman EMERICH was thanked for his presentation.

Karina MATHISEN raised the question about software automation to which **Hermann EMERICH** answered that for the time being concentration has to be on the move to the new beam line, but that will have to be planned afterwards.

5. Any other business

5.1. SNBL - MAX IV

[V. Dmitriev]

Gervais CHAPUIS was approached by different members to improve the exchanges between SNBL and MAX IV. **Vladimir DMITRIEV** attended the meetings: UM14 on 29-30 September and SAC for the BALDER beamline on 1st October 2014

Vladimir DMITRIEV reported that within the MoU with MAX-lab, the interest was initially centered on single crystal diffractometer. The focus moved now to the EXAFs beam line.

Vladimir DMITRIEV is impressed by the work done by **Christoph QUITMANN** and his team.

Both SNBL stations were presented to the MAX-lab users.

Collaboration based on the « BALDER » Project. Not all our Users will be interested in going to MAX IV.

On the question of SNBL funds to be sent to MAX IV, during the ESRF long shutdown period, this question was not raised during the meeting in MAX IV.

Helmer FJELLVAG, in agreement with Björn Hauback commented that the SNBL funds will not be used to fund MAX IV.

Gervais CHAPUIS commented that it is too early to decide on the actions to be taken during the big ESRF shutdown which will not take place before 2018 or even 2019.

Gervais CHAPUIS underlined that SNBL is ready to extend its collaboration with MAX IV.

Martin STEINACHER asked this item of the Agenda to be included at our next SNX Meetings. In view of the next SNBL funding period 2017-2020, it is important to get a clear picture what the possible additional costs would be to execute SNBL experiments at MAX IV during the ESRF long shutdown.

5.2. COF 2 – Report No. 2

[G. Chapuis]

Gervais CHAPUIS reported that a group of 4 people worked on the COF 2 project.

Members of the Committee:

Robert Cernik (University of Manchester) Chairman

Lynne McCusker (ETHZ, Zurich)

Kenneth Knudsen (IFE, Kjeller)

Serena Margadonna (University of Oslo)

Also participating in the meetings:

Gervais Chapuis (EPFL, Lausanne) Chair SNX Council

Vladimir Dmitriev (SNBL), Beamline Director, and Philip Pattison, Deputy.

The final version of the report is not yet ready but it will be sent to the SNX members as soon as possible.

The opinion/s of Norwegian and Swiss users has/ve been collected. It was pointed out that the return from the Users was extremely useful.

Main content of the report :

BM1A (software)

BM1B (move to BM31)

Infrastructure (such as glove boxes, fume cupboards)

Staff Planning (long-term staff operations)

In-house Research (emphasis on the areas of research highlighted by the funding partners)

Once this report is ready, this should be discussed again during our next SNX Meeting.

This report is seen as extremely useful from the staff point of view as it helps to provide the service requested by the Users.

The recommendations in some cases need to be supported financially.

Comments / suggestions from the Observers on the report are welcome.

Helmer FJELLVAG commented that items of improvement should be prioritized.

Deadline for the final COF2 report end of January 2015.

Prioritized list to be decided by SNX committee in May 2015

This item is to be included in the Agenda of the next SNX Meeting in May 2015.

The COF committee was thanked for the excellent work done.

5.3. Follow-up on the transfer of beamline BM01B

[V. Dmitriev]

See **Vladimir DMITRIEV's** presentation in **Appendix No.7**.

Human resources estimate:

Administrative actions: Vladimir DMITRIEV

Optics responsible: Philip PATTISON

Infrastructure and move, responsible: Wouter VAN BEEK

Reliability BM01B: Hermann EMERICH

Project coordinator CRG office: Eric DETTONA

Technical drawings of beamline components : *Instrument Design Technology*

Time Table:

Conceptual Design Report	End October 2014
Technical Design Report	January 2015
Implementation TDR	1st half 2015
Ordering new beamline components	Spring 2015
Construction works	2nd half 2015
Move from BM01B to BM31	Winter shutdown 2015/2016
3 months commissioning	Winter/Spring 2016
Start USM	Mid 2016

The Conceptual Design Report of BM 31 has been approved by the ESRF SAC (6-7 November 2014).

The contract with the ESRF should be signed by the end of 2014. Construction work can then start.

Regarding the move from BM1B to BM31, there will be a detailed planning so as to have period of shutdown for BM1 as short as possible.

Gervais CHAPUIS and the committee are looking forward to the progress on this transfer.

5.4. Exchange shifts SNBL / DUBBLE

[C. Heurtebise]

See updated table in **Appendix No.8.**

The committee is impressed by the very good collaboration between SNBL and DUBBLE

5.5. SNBL staff – perspectives (in attendance: SNX Members and Observers)

[G. Chapuis]

The Director has the full support of the committee to take any action in order to have a good working team.

See **Appendix No. 10: Delegate Meeting, point 2/22**

6. Discussion of Proposals

[Shepherds]

6.1. Beamline Scientist's Technical Assessment of Proposals and Shepherd's Assessments

6.2. Assessment Committee –allocation of beamtime

BM1A

Total number of shifts available : 203

Shifts for ESRF 68

Shifts available for discussion : 135

Shifts for LTP 15

Shifts for discussion : 120

Total shifts requested: 90 in 9 proposals from Swiss (5) and Norwegian (4) Institutes.

Proposal with Grade 1, 2, 3, 4 and 5 are allocated beamtime.

BM1B

Total number of shifts available :	203
Shifts for ESRF	71
Shifts available for discussion :	132
Shifts for LTP	15

Shifts for discussion : 117

Total shifts requested: 230 in 16 proposals from Swiss (11) and Norwegian (5) Institutes.

Proposal with Grade 1, 2, 3 and 4 are allocated beamtime.

Allocation of beamtime, see **Appendix No.9**.

Serena MARGADONNA was thanked for her input, over the past years, in the evaluation of proposals.

7. Summary of actions to be taken**[C. Heurtebise]**

no actions.

8. Concluding remarks**[G. Chapuis]**

23rd SNX Meeting. This meeting will take place on Tuesday 26th (after lunch) and Wednesday 27th May 2015. Thursday 28th and Friday 29th May 2015 will be for « SNBL User Meeting ». To be organized by **Chantal HEURTEBISE and Vladimir DMITRIEV**.

24th SNX Meeting. This meeting will take place on Tuesday 24th and Wednesday 25th November 2015, in Grenoble. To be organized by **Chantal HEURTEBISE**.

25th SNX Meeting. This meeting will take place in May / June 2016. Dates to be fixed by e-mail exchanges. (**Chantal HEURTEBISE**).

Gervais CHAPUIS thanked everyone for the various contributions. This was a very satisfactory meeting, included the progress on the move to BM31.

9. SNX Delegates Meeting

Affiliation of the Main Proposer.

See **Appendix No. 10: Delegate Meeting, point 3/22**.

List of Appendices, showing the page number on which they appear in the minutes.**Appendix A available only to SNX Members and Observers****Appendix B available to all**

Appendix No.1.B	P.2.	Approved Agenda
Appendix No.2.A	P.2.	Income, spending 2014
Appendix No.3.A	P.3.	Budget 2015
Appendix No.4.B.	P.3.	SNX and A.SNG operations
Appendix No.5.B.	P.3.	Beamline A: operations
Appendix No.6.B.	P.4.	Beamline B: operations
Appendix No.7.A.	P.7.	Follow-up on the transfer of beamline BM1B
Appendix No.8.A.	P.8.	Exchange shifts SNBL / DUBBLE
Appendix No.9.B .	P.9.	Allocation of Beamtime
Appendix No.10.A.	P.8 & 10.	Delegate Meeting – Items.2/22 and 3/22
Appendix No.11.A.		Duration and modalities SNX Members Mandate