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24th MEETING OF THE SNX COUNCIL

Grenoble (France)
Tuesday 24th and Wednesday 25th November 2015

SNX Council Meeting

Mr. Chairman welcomed everyone. **Martin STEINACHER** introduced **Xavier REYMOND**, his successor as from 2016.

Mr. Chairman expressed his gratitude to **Martin STEINACHER** who has been participating for 10 years, that is 20 SNX meetings, for the importance of the interface between SNBL and the Swiss Government. The SNX participants wished **Martin STEINACHER** all the best for his new position in Geneva.

Jeroen VAN BOKHOVEN and **Bjorn JACOBSEN** apologized for not being able to attend this meeting.

1. Approvals and Review

[H. Fjellvag]

1.1 Approval of the Agenda

The Agenda was unanimously approved, see Agenda, **Appendix No. 1**.

1.2 Approval of the minutes of the 23rd SNX Council

The Minutes of the 23rd SNX Council were approved unanimously.

2. Financial Matters

2.1. Income and Spending 2015

[C. Heurtebise]

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

Documents e-mailed :

- Administrative report 2015
- Income 2015 – Baseline and outside Baseline
- Income 2015 – Outside contract
- Reserves as of 1st November 2015

- Spending ‘compte d’exploitation as of 1st November 2015”
- Orders as of 1st November 2015
- Maintenance and Running Expenses – Budget 2015

2.2. Updated table income/spendings (transfer of beamline)[V.Dmitriev/C. Heurtebise]

See document e-mailed to SNX participants :

- Follow-up Income / Spending transfer of beamline (BM 31) as of 1st November 2015, **Appendix No. 3.**

2.3. Budget 2016

[V.Dmitriev]

See Maintenance budget presented by **Vladimir DMITRIEV**, see **Appendix No.4.**

2.4. Budget 2017-20 – Basic Principles

[V.Dmitriev]

See **Vladimir DMITRIEV**’s presentation, **Appendix No. 5.**

The yearly increase will be confirmed by e-mail from RCN. The figure of 2% increase was mentioned by RCN and SERI.

Is the item Developments (COF) to be kept in the budget? Development amount is seen as indispensable in order to effectively perform some technical developments on the beamlines.

It is at this stage difficult to assess the amount needed before the next ESRF EBS shutdown is finalized.

If additional amount is needed, there are 2 possibilities: make a funding request, and/or cumulate from the yearly budget.

Gervais CHAPUIS is of the opinion that a request should be made via submission of a project to the Swiss National Science Foundation within the ReEquip program, to which **Piero MACCHI** agreed with. Such a project would have more chance if it would be part of a joint project with the Norwegian side.

Mr. Chairman concluded that the Developments (COF) item should be kept in the budget. We have 2 years in order to see what will the financial needs be with regards to ESRF EBS. Both Norway and Switzerland have the possibilities of requesting extra funds. The outcome will depend on application.

Personnel expenses. Will the EPFL contribution be still valid as from 2017? **Gervais CHAPUIS** is in contact with EPFL and hopes to get an answer by the end of this year.

3. Report of the SNX Chairman

Mr. Chairman reported about the meeting, which took place in Geneva on 30th October 2015. (Were present at that meeting : **Helmer FJELLVAG**, **Gervais CHAPUIS** and **Vladimir DMITRIEV**).

The following points were discussed:

- Beamlines
- SNX Members
- Personnel
- ESRF EBS shutdown
- **Vladimir DMITRIEV** presented the plan over 4 years (2016 to 2020)

See **Vladimir DMITRIEV**'s presentation and summary of explanations in **Appendix No. 6**.

4. Report of the SNX Operations

4.1. SNX and A-SNG operations

[V. Dmitriev]

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

Beam Time Statistics

Administrative Actions :

- MaMaSELF
- Workshop 28-29 May 2015 - 20 years of SNBL – “SNBL - Planning for the next decade” - A very successful workshop. It is clear that SNBL is complementary to SLS and MAX IV. See the Program of the workshop **in Appendix No.8**.

4.2. Beamline A: Operations

[P. Pattison]

See **Philip PATTISON**'s presentation in **Appendix No.9**.

Diffraction platform BM1A - Technical progress

Software

- Automatic tool for powder diffraction data processing (in collaboration with DUBBLE)
- SNBL ToolBox Multipurpose collection of software tools, developed by **Vadim DIADKIN**.
- Improved control software and general scan options

Hardware

Removal of KM6 diffractometer from BM01A to temporary storage (Jan 2016)

Re-organization of hutch layout to improve access and facilitate use of ancillary equipment

New data processing workstation and improved data storage and data transfer

Recent publications and Highlights

In situ studies of nucleation and growth mechanisms during hydrothermal synthesis of oxide materials. Mari-Ann Einarsrud, Dept of Materials Science, Trondheim

Investigation of the polymerization process in a novel two-dimensional polymer using diffuse scattering. Gregor Hofer and Thomas Weber, ETH Zürich

Identification, structural characterization and transformations of the high-temperature $Zn_9\text{-}\delta\text{Sb}_7$ phase in the Zn-Sb system. He, A., Svitlyk, V., Chernyshov, D., Mozharivskyj, Y

Collaborative projects

With users groups :

1. Routine combination of X-ray / Optical / Raman spectroscopy

SNBL : Uni Oslo

Coordinator – K K Andersson

2. Software development for Kappa-goniometer on PILATUS@SNBL

SNBL / Uni Stavanger

Coordinator – H B Larsen

3. Simulation of FEL beam characteristics using SNBL

SNBL/ ETHZ / PSI

Coordinator – L McCusker

With other institutes

1. Sharing of beam time and other resources

Collaborative agreement with DUBBLE CRG

2. Joint projects for developing diffraction and EXAFS techniques

Memorandum of Understanding with MAXIV Laboratory

3. Measurement of diffuse scattering under electric field

XMAS CRG at ESRF and University of Manchester

Long-term developments (Summer 2016)

Move of BM01B to BM31

Operation of BM01A as a single beamline on BM01 bending magnet port

Planning for operation of BM01A after BM01B move in 2016

Preserve current functionality

Make use of two hutches available

Upgrade of beamline optics

Detector upgrade (2017-2020)

Crystallography service for access to BM01A :

Service provided by BM01A staff

For straightforward experiments (single crystal and powder) which need 1 shift or less

Samples are sent to ESRF by local service crystallographers (NTNU, Uni Oslo, ETHZ, EPFL, EMPA, Uni Geneva, Uni Zurich ...)

The plan is to keep one day per month for this kind of experiments. Results coming out within 2 to 4 weeks.

Philip PATTISON was thanked for his presentation.

4.3. Beamline B: Operations

[H. Emerich]

See **Hermann EMERICH's** presentation in ***Appendix No.10.***

Beamline status

SNBL Overall Performance

No down time due to beam line (component) failures

Detector stability

Two days without the 2D (Dexela) detector due to an unidentified error

The ESRF software group is actively working on an improved linux based acquisition software

We hope that the new software will improve the stability of the detector / acquisition

PDF Status

Improvements and changes

- Alignment Laser and Beam Stop
- New Xafs Amplifiers
- Mass Spec Refurbished
- New X-ray Eye Development

BM 31

Status

- Lead Hutch Construction is done.
- Infrastructure in preparation
- Physical move is planned during summer 2016 shutdown, commissioning in the Autumn 2016 shutdown

Hermann EMERICH was thanked for this presentation.

5. Any other business

5.1. Follow-up on the transfer of beamline BM01B

[V. Dmitriev]

See Vladimir DMITRIEV's presentation *in Appendix No.11*.

Reminder (see Minutes 22nd SNX Meeting) :

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

Revised planning (November 2015) - there might be some future adjustments.

Status BM31 :

	BM31 SNBL-II	target	estimate	estimate	estimate	estimate	estimate
			QM2014/Q2	QM2014/Q3	QM2014/Q4	QM2015/Q1	QM2015/Q3
recent	TDR ready	01/03/2015	n/a	01/03/2015	29/05/2015		29/06/2015
upcoming	Stop existing Beamline	29/07/2015	n/a	n/a	n/a	29/07/2015	01/08/2016
	Start Leadworks	31/07/2015	n/a	n/a	n/a	31/07/2015	14/10/2015
	End Leadworks	27/08/2015	n/a	n/a	n/a	27/08/2015	30/10/2015
	End facilities works						01/04/2016
	Radiation test						
	Start move components from BM01 to BM31						01/08/2016
	Start Commissioning BM31						01/09/2016
	End Commissioning BM31						31/10/2016
	Start Friendly Users						02/11/2016
	Start Normal User operation						16/11/2016
	Project Status:						
			n/a	GREEN	GREEN	YELLOW	

Revised budget, based on updated figures 1.22M€

The ESRF is a very good partner for this project.

5.2. Exchange shifts SNBL / DUBBLE

[C. Heurtebise]

See document e-mailed to SNX participants, see **Appendix No.12**.

- Exchanges of shifts SNBL / DUBBLE

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 :	213
Shifts for ESRF	- 71
Shifts available for discussion :	142
Shifts reserved (LTP)	- 15

Shifts for discussion : 127

Total shifts requested: 174 in 16 proposals from Swiss (12) and Norwegian (4) Institutes.

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

BM1B

Total number of shifts available :	213
Shifts for ESRF	- 71
Shifts for DUBBLE	- 9

Shifts for discussion : 133

Total shifts requested: 156 in 10 proposals from Swiss (6) and Norwegian (4) Institutes.

Proposal with Grade 1,2,3,4, 5 and 6 are allocated beamtime.

Allocation of beamtime, see **Appendix No.13**.

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

No actions.

8. Concluding remarks [H. Fjellvag]

25th SNX Meeting. This meeting will take place on Tuesday 24th and Wednesday 25th May 2016 in Norway.

Helmer FJELLVAG and Gervais CHAPUIS to suggest a place in Norway. Trondheim is a suggestion. Deadline: January 2016. **To be organized by one Norwegian SNX Member. Name to be provided by Helmer FJELLVAG.**

26th SNX Meeting. This meeting will take place in Grenoble, in November 2016: Tuesday 29th November 2016 **from 14H** to Wednesday 30th November 2016. To be organized by **Chantal HEURTEBISE**.

27th SNX Meeting. This meeting will take place in May/June 2017, Place to be defined. Week 21 (Monday 21st to Wednesday 23rd May as 25th May is a day off) or Week 22 (Monday 29th May to Friday 2nd June 2017).

Mr. Chairman thanked everyone for their contribution to this meeting.

Users should be encouraged to submit proposals for run 2016/II although there will be a shutdown period for SNBL (around one month for BM1A, and around 2 months for BM1B).

In the Agenda of May 2016, the following items should be included: SNBL operation, SNBL personnel, and ESRF EBS.

Helmer FJELLVAG suggested to investigate the following programs in order to find extra funds for the purchase of equipment:

On the Swiss side, “ReEquip program”

On the Norwegian side, “Infrastructure program”

9. SNX Delegates Meeting

No delegates meeting took place.

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 and spending 2015
Appendix No.3.A	P.3.	Follow-up income/spending transfer of beamline
Appendix No.4 B	P.3.	Maintenance Budget 2016
Appendix No.5.A.	P.3.	Budget 2017-2020 – Basic Principles
Appendix No. 6.A.	P.4.	Plan from 2016 to 2020
Appendix No.7.B.	P.4.	SNX and A.SNG operations
Appendix No.8.B	P.4.	Workshop 28-29 May 2015 – 20 years of SNBL
Appendix No.9.B.	P.4.	Beamline A: operations
Appendix No.10.B.	P.6.	Beamline B: operations
Appendix No.11.A.	P.7.	Follow-up on the transfer of beamline BM01B
Appendix No 12.B.	P.8.	Exchange shifts SNBL / DUBBLE
Appendix No.13.B.	P.9.	Allocation of beamtime
Appendix No.14.A		Resolution and Delegate Meeting
Appendix No.15.A.		Duration and modalities SNX Members Mandate