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# 15th MEETING OF THE SNX COUNCIL

La Gruyère (Switzerland)  
Tuesday 31<sup>st</sup> May and Wednesday 1<sup>st</sup> June 2011

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## SNX Council Meeting

*In Attendance:* SNX Council, SNX Secretary, Observers from RCN and SER.

### 1. Approvals and Review [D. Nicholson]

#### 1.1. Approval of the Agenda

The agenda, **Appendix 1**, was unanimously approved.

#### 1.2. Approval of the minutes of the 14th SNX Council

The minutes of the 14<sup>th</sup> SNX Council Meeting were approved unanimously.

#### 1.3. Review and results of actions decided at last meeting

There were no actions.

### 2. Financial Matters

#### 2.1. Income and Spending 2010 (Balance 2010) [C. Heurtebise]

Income and Spending 2010, see **Appendix No. 2**.

Audit and Balance 2010, , see **Appendix No. 2**.

The UBS 6300 account is to be kept opened for the time being.

**15.2.1. Intellectual property and patents. This will be looked into by Aase Marie HUNDERE, Martin STEINACHER and Gervais CHAPUIS. This will be included in the next 4-year contract (2013-2016). Deadline: December 2011.**

The accounts for 2010 were approved

#### 2.2. Income 2011 and Spending as of May 201 [C. Heurtebise]

Expected income for 2011, see **Appendix No. 3**.

#### 2.3. Budget for 2012 [V. Dmitriev]

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

To be included in the budget 2012: the reference of ESRF salaries, salaries to be recalculated with the exchange rate of 1,35. To be done by Vladimir DMITRIEV, deadline : as soon as possible. Done 30<sup>th</sup> June 2011.

SNBL Job Descriptions e-mailed on 30<sup>th</sup> June 2011.

The voted budget for 2012 will be in CHF.

#### 2.4. Budget for 2013-2016 [V. Dmitriev]

See Vladimir DMITRIEV's presentation in **Appendix No. 5**.

The budget was presented.

### 3. Report of the SNX Chairman

#### 3.1. CH-N Cooperation Agreement Renewal: Status – N [D. Nicholson]

See below

#### 3.2. CH-N Cooperation Agreement Renewal: Status - CH [G. Chapuis]

See below

#### 3.3. CH-N MoU Renewal Status – N [A.M. Hundere]

See below

**3.4. CH-N MoU Renewal Status – CH****[M. Steinacher]**

See below

**3.5. Performance Contract Renewal: Status – N****[A.M. Hundere]**

See below

**3.6. Performance Contract Renewal: Status – CH****[M. Steinacher]**

See below

Aase Marie HUNDERE and Martin STEINACHER will look into the technicalities and legal required actions that would permit extending the current MoU, Cooperation Agreement and Performance Contracts by one year (2012). This is necessary in order to synchronise the next four-year contract with the funding period of the SER. Both sides will work towards finalising a new contract for the period 2013 – 2016 during the year 2012.

**4. Report of the SNX Director****[V. Dmitriev]****4.1. SNX and A-SNG operations**See Vladimir DMITRIEV's presentation in **Appendix No. 6.**

The ESRF long shut down has been discussed in relation to the attribution of shifts.

After discussions with the ESRF, the temporary location of the SNBL workshop should be relatively near the SNBL beamlines.

Unlike the present situation, the temporary offices assigned by the ESRF to SNBL will not have facilities that permit the staff to take meals in the office. Therefore a temporary measure will be put in place and SNBL will join the ESRF cafeteria card system with the attendant costs being budgeted for 2012 or until the SNBL moves into permanent offices with facilities for taking meals.

**4.2. Report on meetings and Workshops**

There were no meetings or workshops in 2010.

**In Attendance:** SNX Council, SNX Secretary, Observers from RCN and SER, BL Scientists.

**5. Status of the SNBL operations****5.1. Beamline A: Operations****[P. Pattison]**See Philip PATTISON's presentation in **Appendix No. 7.**

- Routine operations, no problems or lost beamtime
- Collaborations with DUBBLE and MaxLab continues
- Delivery, installation and commissioning of new CCD
- Visit by 2 students from University of Oslo
- Presentation of some scientific results
- Planning for the future (implementation of CoF report)

Philip PATTISON was thanked for his presentation.

**5.2. Beamline B: Operations****[H. Emerich]**

See Hermann EMERICH's presentation in **Appendix No. 8.**

- EXAFS Mono
- Cryo Streamer Chamber
- What we can do : Pseudo-Simultaneous
  - XAFS (at high energies)
  - High Resolution Powder Diffraction
  - (In-Situ) Raman
- The final goal :
  - Getting TRULY simultaneous PD-XAFS / XAFS-XAFS +
  - Raman measurements in the 1 sec scale
- What we gain :
  - Better harmonic suppression
  - Increase in flux without degradation of the resolution (~ 4 x)
  - Top of RC (Better beam homogeneity + Flux)
  - Increase of reliability (Mono seals)
  - “free”to adapt beam to experiment in Post-Mono mirror system
 => Full PD-XAFS combination is easy from there

Hermann EMERICH was thanked for his presentation.

**In Attendance:** SNX Council, SNX Secretary, Observers from RCN and SER.

**6. Any other business****[D. Nicholson]****6.1. Proposal PILATUS 2M**

The money is now secured from both parties.

**6.2. Procedure for future applications for funding expensive instruments-N****[A. Hundere]**

Aase Marie HUNDERE reported that the requests for specific grants in Norway have to follow a set procedure that is rather involved. The next call will be in 2012/2013.

**6.3. Procedure for future applications for funding expensive instruments-CH****[G.Chapuis/M.Steinacher]**

On the Swiss side, there are no changes regarding the applications for funding expensive instruments.

**7. Discussion of Proposals****[Shepherds]**

**Part I: In Attendance:** SNX Council, Beamline Scientists, SNX Secretary

**7.1. Beamline Scientist's Technical Assessment of Proposals and Shepherd's Assessments****BM1 A**

Total Number of shifts available:	148
Shifts for ESRF	49
Shifts available for scheduling:	99
<b>Shifts available for discussion:</b>	<b>99</b>

Total Shifts requested by users : 222 (180 for SNBL + 42 for DUBBLE)  
(92 from Swiss and 87 from Norwegian groups)

**All the proposals with Grade 1, 2 and 3 are allocated beamtime. Proposals with grade 4 are on the waiting list.**

**BM1 B**

Total Number of shifts available		148
Shifts for ESRF	49	
Shifts available for scheduling		99
Long Term		
McCusker 01-01-830	6 shifts	
<b>Shifts available for discussion:</b>		<b>93</b>

Total Shifts requested by users : 210  
(78 from Swiss and 132 from Norwegian Groups)

**All the proposals with Grade 1, 2, 3 and 4 are allocated beamtime**

*Part II: In Attendance:* SNX Delegates and SNX Secretary

**7.2. Assessment Committee –allocation of beamtime**

**15.7.1. Guidelines for LTPs to be reviewed in December 2011. David Nicholson**

**8. Summary of actions to be taken**

**[C. Heurtebise]**

**15.2.1. Intellectual property and patents. This will be looked into by Aase Marie HUNDERE, Martin STEINACHER and Gervais CHAPUIS. This will be included in the next 4-year contract (2013-2016). Deadline: December 2011.**

**15.7.1. Guidelines for LTPs to be reviewed in December 2011. David Nicholson**

**9. Concluding remarks**

**[D. Nicholson]**

*Attendance: SNX Members, SNX Secretary*

**16<sup>th</sup> SNX Meeting.** This meeting will take place in Grenoble, on Thursday 1<sup>st</sup> and Friday 2<sup>nd</sup> December 2011. Organisation: Chantal Heurtebise.

**17<sup>th</sup> SNX Meeting.** This meeting will take place in Nice, France, either last week of May (28 may pentecote) or First week of June 2012. Organisation: Chantal Heurtebise

**18<sup>th</sup> SNX Meeting.** This meeting will take place in Grenoble. This meeting will take place in Grenoble, on Wednesday 28<sup>th</sup> and Thursday 29<sup>th</sup> November 2012, or on Thursday 29<sup>th</sup> and Friday 30<sup>th</sup> November 2012. To be confirmed in December 2011. Organisation: Chantal Heurtebise

The SNX Members expressed complete satisfaction with the overall performance of both beamlines.

Everyone is thanked for this meeting.

**10. SNX Delegates Meeting**

*Attendance: SNX Delegates, SNX Secretary*

Web Master Position: job description is to be provided to David NICHOLSON, to be approved by SNX Members.

Jeroen VAN BOKHOVEN accepted the next 3-year mandate.

**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 2010, Audit and Balance 2010
Appendix No. 3.A.	P.2.	Expected income for 2011
Appendix No. 4.A.	P.2.	Budget for 2012
Appendix No. 5.A.	P.2.	Budget for 2013 - 2016
Appendix No. 6.B.	P.3.	Report of the SNX Director
Appendix No. 7.B.	P.3.	Operations - Beamline A
Appendix No. 8.B.	P.4.	Operations – Beamline B
Appendix No. 9.B.	P.5.	Allocation of Beamtime



Current round								
01-02-953	M.	ÖRS Taylan	ETH Hoenggerberg Laboratory of Crystallography Department of Material Science HCI G513 Wolfgang-Pauli-Strasse 10 CH - 8093 ZUERICH	<b>Precise diffraction pattern measurements of decagonal Zn- Mg-Dy and Al-Ir-Os quasicrystals.</b>		9		<b>ESRF - HS 4421</b>
01-02-954		Obsolete						
01-02-955	Prof.	TAGANTSEV Alexander	EPFL STI IMX LC EPFL STI IMX LC MXC 240 Batiment MXC Station 12 CH - 1015 LAUSANNE	<b>Order parameter competition and diffuse scattering in antiferroelectric PbZrO3 single crystal</b>		18		<b>3 12</b>
01-02-956	M. Sc	OESTRENG Erik	University of Oslo Department of Chemistry P O Box 1033 Blindern NOR - 0315 OSLO	<b>Crystallization of ALD-grown thin films</b>		18		<b>3 9</b>
01-02-957	Dr.	WRAGG David	University of Oslo INGAP Innovative Nat Gas Processes & Prods Dept of Chemistry Postbox 1033 Blindern NOR-0315 OSLO	<b>Understanding the Role of Water in Methanol to Olefin Catalyst Deactivation</b>		15	26-02,458 CH-2922 CH-2965	<b>3 9</b>
01-02-958	Prof.	FOSSUM Jon otto	Norwegian University of Science & Technology Department of Physics NOR - 7491 TRONDHEIM	<b>CO2 interactions with synthetic Na-fluorohectorite clay.</b>		18		<b>6 9</b>
01-02-959	Prof.	FOSSUM Jon otto	Norwegian University of Science & Technology Department of Physics NOR - 7491 TRONDHEIM	<b>Structural changes and delamination in aqueous clay dispersions – reversibility - DUBBLE BM26B via SNBL</b>	DUBBLE	9	01-02-905	<b>To be done on DUBBLE</b>
01-02-960	Prof.	FOSSUM Jon otto	Norwegian University of Science & Technology Department of Physics NOR - 7491 TRONDHEIM	<b>Humidity transport in nanoporous clay, DUBBLE BM26B via SNBL</b>	DUBBLE	12		<b>To be done on DUBBLE</b>



01-02-961	Ms.	BUXHUKU Mika	Stavanger University College Department of Materials Science P O Box 8002 NOR - 4068 STAVANGER	Evaluation of Debye-Waller factor and the role of phonon dispersion in the thermal conductivity of thermoelectric material skutterudite and "filled skutterudite"		9		3	6
01-02-962	Prof.	HAUBACK Bjorn C.	Institute for Energy Technology Department of Physics P O Box 40 NOR - 2027 KJELLER	Structural studies of hydrogen storage materials. LTP		15	01-01-805 01-02-862 01-02-772 (5 reports)	Accepted as normal Proposal Grade 2	12
01-02-963		Obsolete							
01-02-964	Dr.	KNUDSEN Kenneth d.	Institute for Energy Technology Department of Physics P O Box 40	Anisotropy in PS-clay nanocomposites	DUBBLE	9	01-02-921		To be done on DUBBLE
01-02-965	Dr.	POMJAKUSHINA Ekaterina	Paul Scherrer Institute CH - 5232 VILLIGEN	Crystal structure study of superconducting $XyFe_2-xSe_2$		12		3	6
01-02-966	Prof. Dr.	DIETZEL Pascal D C	Department of Chemistry University of Bergen Postboks 7803 NOR - 5020 BERGEN	Crystal structure determination of weakly diffracting large pore metal-organic framework compounds		12		5	6
01-02-967	Dr.	CERNY Radovan	Universite de Geneve Laboratoire de Cristallographie 24 quai Ernest-Ansermet Genève 4 CH - 1211 GENEVE	In situ kinetic diffraction / Raman study of $Li(4-2y)NH$ formed via solid state reaction from $(1-y)Li_4NH + Li_2NH$		6	01-02-854 01-01-784	2	6
01-02-968	Prof.	CHAPUIS Gervais	EPFL SB IPSB Laboratoire de Cristallographie EPFL SB IPSB LCR Bat. BSP/Cubotron CH - 1015 LAUSANNE	Temperature-dependent phase transitions in $BaVS_3$ and $BaVS_3\#$		9		3	9
01-02-969	Prof.	CHAPUIS Gervais	EPFL SB IPSB Laboratoire de Cristallographie EPFL SB IPSB LCR Bat. BSP/Cubotron CH - 1015 LAUSANNE	Structural characterization of the new superconducting material $BiOCu(1-y)S$		9		4	9

01-02-970	Dr.	CERNY Radovan	Universite de Geneve Laboratoire de Cristallographie 24 quai Ernest-Ansermet Geneve 4 CH-1211 Geneve	<b>Synthesis and structural characterisation of novel metal borohydrides for hydrogen storage and lithium batteries.</b>		12	01-02-864 01-02-834 01-02-805	2	9
01-02-971	Dr.	BESNARD Celine	Universite de Geneve Laboratoire de Cristallographie 24 quai Ernest-Ansermet Genève 4 CH - 1211 GENEVE	<b>Reverse-LIESST experiments on a truly light-induced bistable system</b>		8		2	9
01-02-972	Dr.	SARTORI Sabrina	Institute for Energy Technology Department of Physics P O Box 40 NOR - 2027 KJELLER	<b>SAXS investigations on hydrides with and without catalysts under the SNBL dubble agreement</b>	DUBBLE	12	MA-1175 SC-2868 01-02-861		
01-02-973	Prof.	SCHILTZ Marc	EPFL SB IPMC Laboratoire de Cristallographie EPFL SB IPMC LCR Bat. BSP CH - 1015 LAUSANNE	<b>Investigating the temperature dependence of EXAFS and Bragg scattering in a molecular complex.</b>		9		3	6
			<b>Proposals accepted : grades 1, 2 and 3. Grade 4 on the waiting list</b>						

Prop. N°	Title	Surname	Lab	Experiment title		Shifts requested	Reports	Grade Granted	Shifts Granted
<b>Urgent</b>									
01-01-873		AIMOZ Laure	Paul Scherrer Institute Waste Management Laboratory OFLG 207 CH - 5232 VILLIGEN	High resolution XRD measurements at low temperature of iodide-containing layered double hydroxides		6			
01-01-874	Prof.	NIEDERBERGER Markus	ETH Zuerich Department of Materials Wolfgang-Pauli-Str. 10 CH - 8093 ZUERICH	Cycling stability of doped LiFePO4 (olivine) based cathodes for Li ion batteries		9			
<b>Previous rounds</b>									
01-01-830	Dr.	Lynne MCCUSKER	ETH Zuerich Laboratory of Crystallography Wolfgang-Pauli-Strasse 10 CH-8093 ZUERICH SWITZERLAND	<b>Analysis of complex structures using high-resolution powder diffraction data - L T P</b>	June 10 : 6 Dec 10 : 6 June 11 : 6 Dec 11 :	24	01-01-716 (2) 01-01-772		<b>6</b>

Current round									
Prop. N°	Title	Surname	Lab	Experiment title		Shifts request	Reports	Grade Granted	Shifts Granted
01-01-857									
01-01-858	Ms	SOLTERMAN N Daniela	Paul Scherrer Institut Laboratory for Waste Management Villigen PSI CH - 5232 VILLIGEN	<b>XAS investigations of the influence of reducing conditions on clay properties</b>		15			<b>To be done on DUBBLE</b>
01-01-859	Dr.	KAEGI Ralf	Eawag Process Engineering Ueberlandstrasse 133 CH - 8600 DUEBENDORF	<b>Behavior of silver nanoparticles in wastewater treatment plants</b>		15	01-01-813		<b>To be done on DUBBLE</b>
01-01-860		deleted							
01-01-861	Dr.	OTAL Eugenio	EMPA Uberlandstrasse 129 CH - 8600 ZUERICH	<b>Study of the relationship between structure and photocatalytic activity of TiO2 doped with 3d metals and Ag</b>		12		2	12
01-01-862	Dr.	WRAGG David	University of Oslo INGAP Innovative Nat Gas Processes & Prods Dept of Chemistry Postbox 1033 Blindern NOR-0315 OSLO	<b>High Resolution Powder Diffraction in Functional Materials. LTP</b>	54	12	26-02-458 CH-2922 CH-2965	5	9
01-01-863	Prof.	HAUBACK Bjorn C.	Institute for Energy Technology Department of Physics P O Box 40 NOR - 2027 KJELLER	<b>Structural studies of hydrogen storage materials. LTP</b>	PER RUN ?	15	01-01-805 01-02-862 01-01-745 (4 reports)	3	12

01-01-864	Dr.	MATHISEN Karina	Norwegian University of Science & Technology Department of Chemistry NOR - 7491 TRONDHEIM	<b>In situ XAS/XRD study on the thermal stability of ITQ-n (N=24, 26 and 33), including an investigation of the effect of dealumination</b>		18	CH-2807	6	12
01-01-865	Prof.	OLSBYE Unni	University of Oslo Department of Chemistry & inGAP P O Box 1033 Blindern	<b>Influence of dopants on the CuCl<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> Oxochlorination catalyst: An attempt to improve PVC chemistry</b>		18	CH-3166 (not attached) CH-1061	5	15
01-01-866	Dr.	MATHISEN Karina	Norwegian University of Science & Technology Department of Chemistry NOR - 7491 TRONDHEIM	<b>Silver nanoparticle activity for epoxidation of propene</b>		18	01-01-819	4	12
01-01-867	Dr.	MATHISEN Karina	Norwegian University of Science & Technology Department of Chemistry NOR - 7491 TRONDHEIM	<b>Structural XAS investigation of the (MnX)<sub>3</sub>O<sub>4</sub> spinel layer formed on ferritic steel interconnects</b>		6		4	6
01-01-868	M.	TSAKOUMIS Nikolaos	Norwegian University of Science & Technology Department of Chemical Engineering	<b>Operando Fischer-Tropsch Synthesis: A Study on the behavior of catalysts with small cobalt particle sizes</b>		18		2	15
01-01-869	Prof.	RONNING Magnus	Norwegian University of Science & Technology Department of Chemical Engineering NOR - 7491 TRONDHEIM	<b>The state of nickel as promoter in Fischer-Tropsch catalysts</b>		18		4	15

