



## **PRACTICAL INFORMATION**

# **THE AFRICAN LIGHT SOURCE CONFERENCE AND WORKSHOP**

**16 – 20 November 2015**

**ERSF Grenoble France**



## Map of the site





## Practical Information

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### *Arriving by plane*

**Lyon International Airport** (Saint Exupery Airport) is the most convenient airport, at one hour's drive from Grenoble. On arrival at the airport, take the airport shuttle bus ("Navette Aéroport") to Grenoble bus station, which is next to Grenoble railway station.

From the railway station, take the tram (line B) to the terminus ("Presqu'île"), which is 350 metres from the ESRF site. The tram stop outside the railway station corresponding to the correct direction for the Presqu'île line is situated a few metres outside the main railway station entrance and is the one situated closest to the railway lines

**Geneva International Airport** is a two-hour drive from the ESRF site. Bus and train connections to Grenoble exist but are not very frequent. A shuttle bus service runs between Geneva International Airport and Grenoble bus station: <http://www.aerocar.fr/>. Buses run 5 times a day. Reservation is recommended (online or by phone: +33 (0)974 500 750, or at bus station). Once at the bus station, take the tram from Grenoble railway station as described in the previous paragraph.

There is also a **regional airport at St Geoirs** (Grenoble Isère Airport, 30-40 minutes from Grenoble) that offers one flight a day to/from London's Stansted airport during the winter period (EasyJet). There is a bus from Grenoble St. Geoirs Airport to Grenoble bus station that is timed with flight arrivals. Once at the bus station, take the tram from Grenoble railway station as described in the first paragraph. The return bus from Grenoble bus station to Grenoble St. Geoirs Airport leaves approximately 2h30 before the departure of each flight. This information is subject to change, please check the Grenoble Isère Airport website for precise times.



### *Arriving by train*

There are very good train connections from Paris by TGV, the direct, high-speed train (3h). Please note that seat reservations on the TGV are obligatory and should be made when you buy your ticket.

There are also train connections with Geneva, Chambéry, Turin, Valence, Marseilles, Barcelona, etc. Visit the SNCF website for more details (or phone +33 (0)8 36676869).

### *Arriving by car*

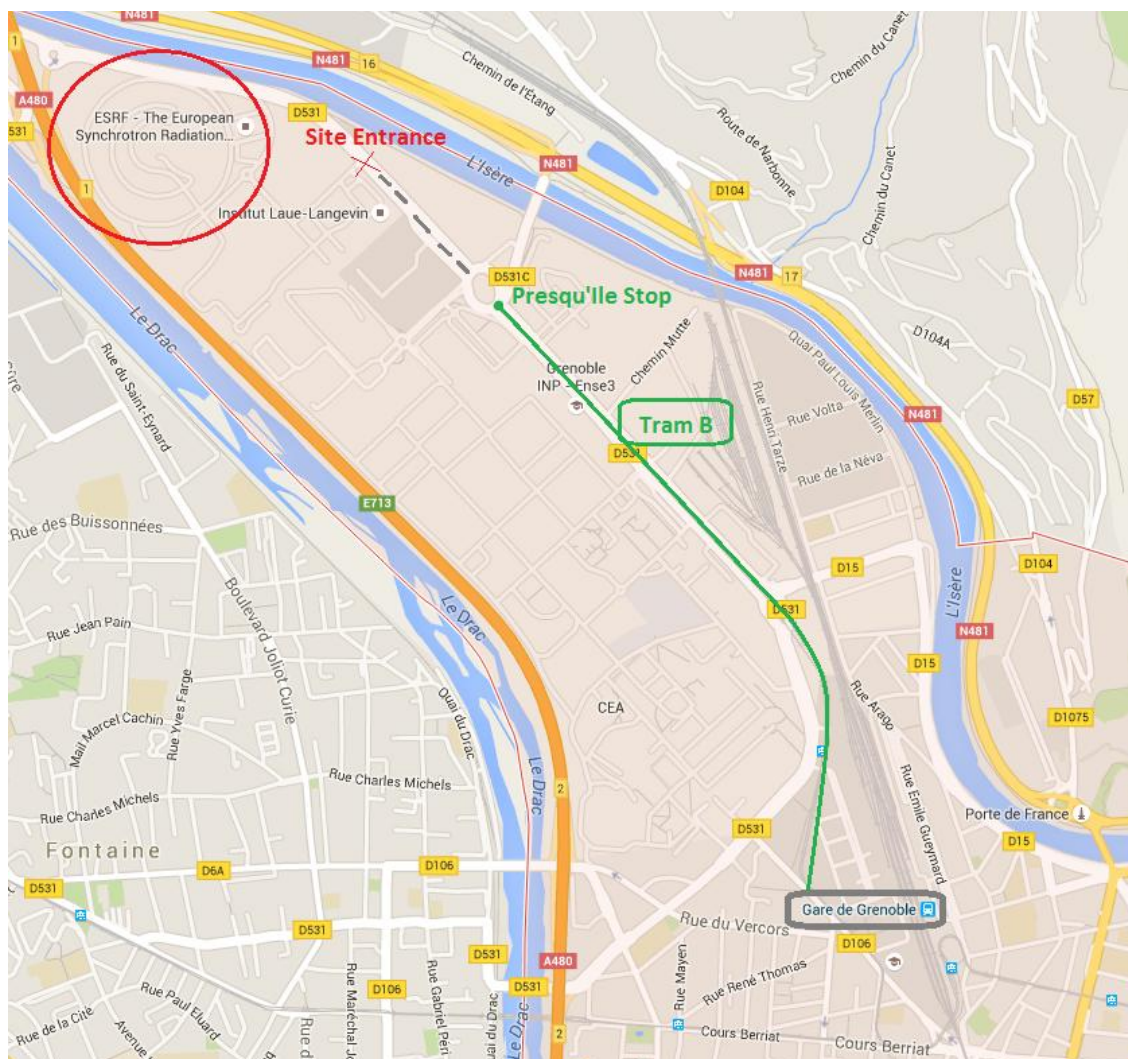


The ESRF site is easily reached by car using the motorway connections.

When coming from Geneva, Chambéry or Turin on the **A41** motorway, follow the signs for the "Rocade Sud/N87" (the Grenoble ringroad) in the direction of "Lyon". This will take you on to the A480. Continue on the A480 in the direction of "Lyon". Leave the A480 at exit N°1 for the "Polygone Scientifique". At the roundabout turn right. The entrance to the site will then appear on your right after several hundred metres.

When coming from Lyon or Valence, stay on the **A48** when approaching Grenoble, following signs for "Grenoble Bastille-Gares-Europole". Leave the A48 at exit N°16 ("Polygone Scientifique") and cross the suspension bridge over the Isère river. At the end of the bridge filter right and turn right, heading north along the Rue des Martyrs (D531). The new site entrance is on the left after a few hundred metres (traffic lights).





### **Local public transport**

The site is well connected to the public transport network.

- Tram B links the site to the bus and railway stations and to Grenoble city centre; its terminus - 'Grenoble Presqu'île' - is situated just 350 metres from the site entrance. Grenoble's trams operate 7 days a week, from 5 a.m. to 1 a.m. approximately.
- The bus service C6 goes from the site to Fontaine, Seyssinet and Seyssins, among other places. It has the same frequency and operating hours as the tram (7/7 from 5 a.m. to 1 a.m.). It stops at the bus stop 'Martyrs Résistance', which is situated right outside the site entrance.
- Bus n° 54 goes to Sassenage and St Egrève. It stops at the bus stop 'Martyrs Résistance', which is situated right outside the site entrance.
- Bus n° 22 goes to St Egrève. It stops at the stop 'Grenoble Presqu'île', which is situated 400 m from the site entrance, next to the terminus of tram B.
- The Transisere bus services Express 1 (Voiron-Grenoble-Crolles) and Express 2 (Voreppe-Champ-près-Froges) stop at Place de la Résistance, 500 m from the site entrance.



## ***Purchase Tram & Bus Tickets***

Local Organisers will distribute a public transport weekly pass, valid from Monday 16 to Friday 20 November included. This pass will be distributed at the OKKO Hotel on Sunday 15 evening and then at ESRF during the week. Please note that the pass needs to be validated each time you use public transport (see photo below).

Automated ticket machines are available at all tram stations. You can use your credit card or coins to pay for your purchases. Bank notes are not accepted.

You can also buy bus tickets from the bus driver (2€), with coins only.

### **1 Trip €1.50**

- The ticket is valid for one hour; connecting and return trips are allowed

### **10 trips for €13.40 or 30 trips for €36.50**

- The ticket is valid for one hour; connecting and return trips are allowed. The tickets can be used by several people travelling together (in this case, the ticket must be stamped as many times as there are people).



*Automated Ticket Machine*

## ***Ticket validation***



*Ticket Validation Machine*



*Insert your ticket in the slit beneath the arrow*



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## ***Taxi services***

107 taxis are available in Grenoble, 24/7.

To require a taxi: +33 (0)4 76 54 42 54

Or [www.taxi-grenoble38.fr](http://www.taxi-grenoble38.fr)



## Practical Information

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### A to Z guide



#### **Badges:**

The ESRF campus is a restricted area and you will be asked to report in at the site entrance on arrival. You will need to produce proof of identification (e.g. passport, ID card) to be able to enter. Participants will be given a conference badge which must be worn at all times for access and security reasons.



#### **Climate:**

November average minimal and maximal temperatures are between 2°C and 10°C. However, colder temperatures and even snow have been known at this time of year.



#### **Electricity:**

AC 230V 50Hz. European sockets. Adapters can be bought in airports, large supermarkets or electronics shops.



#### **Insurance:**

The organisers cannot accept any liability or responsibility for death, illness, or injury to the person or for loss or damage to belongings, which may occur during, before or after the conference. Participants are advised to arrange for health and travel insurance.



#### **Meals:**

All lunches will take place at the on-site restaurant in a reserved area (self-service), coffee and tea will be provided. On Monday 16 and Tuesday 17 November, dinners will also take place at the on-site restaurant. All catering will be free of charge for the Conference participants. Should you have any food restrictions, do not hesitate to inform the waiter and the Conference organisers.



#### **Money:**

The currency in France is the Euro. Other currencies are usually not accepted in hotels, restaurants and shops. Some major foreign currencies can be changed in banks.

Tax: VAT is 20% on most articles and is usually included in the displayed price.

Credit Cards: Visa and Mastercard are accepted almost everywhere, and can be used to get cash from ATMs. Other cards may be accepted in major establishments. Traveller's cheques are not widely used and will probably need to be exchanged in a bank. There are several ATMs in Grenoble city centre.



#### **Poster session:**

A poster session will take place on Tuesday 17 November on the 1<sup>st</sup> floor of the Central Building (mezzanine), from 6:40pm to 7:20pm. Poster panels will be available. Please check the Poster list to see your poster number.



#### **Registration Desk:**

It will be open on Monday 16 November from 8:30am to 11:30am, and from 2:30pm to 3:30pm. For the following days, it will be open every morning from 8:30am to 9:30pm. On Wednesday 18 November it will also open from 2:00pm to 3:00pm.



#### **Smoking:**

Smoking is prohibited in all public places and in the ESRF facilities. Smokers are required to smoke outdoors.



### Social Events:

On Sunday 15 November, from 6:00pm to 10:00pm, there will be a Welcome Cocktail Buffet at the OKKO Hotel downtown Grenoble, 23 rue Hoche, telephone +33 (0)4 85 19 00 10. If you are arriving by the tram, you can take either line C and get off at “Gustave Rivet” station (400m – 5min walk), line A & B and get off at “Victor Hugo” station (800m – 10min walk), or line E and get off at “Condorcet” station (800m – 10min walk).

On Tuesday 17 November, from 6:40pm onwards, there will be a Poster Session on the ESRF central building mezzanine with refreshments.

On Wednesday 18 November, at 5:00pm, Conference buses will leave the ESRF to go to Grenoble’s Art Museum where a special visit of the modern art section will take place until 6:30pm.

At 6:45pm, the Gala Dinner aperitif will start at the Restaurant “Le 5”, located in the same building as the Museum. At the end of the dinner, Conference buses will return to the ESRF with a few stops at the downtown hotels.

On Thursday 19 November, from 6:30pm to 10:00pm, a special “Wine & Cheese tasting” event will take place at the on-site restaurant.



### Time Zone:

In November, France is on winter Central European time (GMT+1).



### Venue:

The Conference will take place in the ESRF Auditorium located in the Central Building’s basement.



### Wifi & Computer Access Point:

Our visitor network complies with the French law, where activity on the Internet can be related to an individual. The Local Organisers will give you a personal user name and password to be used for the duration of your visit. Scientific Visitors coming to ESRF for experiments and any other event, can login to EPN\_Visitors by using the <email-address> + <password> present on their own SMIS accounts (User Portal).

### Eduroam

Network for visitors who have an account in an eduroam-compliant institution: please note that the ESRF and the ILL are eduroam-compliant, so this network can be used by any ESRF user having a valid account.

Personal staff devices (smartphones, tables, etc.) are allowed to use this network as an alternative to former ESRF\_Guest\_LAN (these personal devices are not authorised to use the WiFi networks for Staff).

In the Central Building’s basement, next to the Auditorium, you will find self-service computers.



### Phone Numbers:

- Local Organising Committee  
Ed MITCHELL +33 (0)4 76 88 26 64  
Anne-Françoise MAYDEW +33 (0)4 76 88 20 59 or +33 (0)6 88 38 71 06 (mobile)  
Sarah BRULE +33 (0)4 76 88 20 11 or +33 (0)6 88 38 71 12 (mobile)
- General Emergencies  
(From any European mobile phone): 112



## Day by day programme

<b>Monday 16 November</b>		
<b>Welcome and Opening – Auditorium</b>		
09:30	Welcome and Opening Address 1	Dr. SETTE, Francesco (ESRF)
09:40	Welcome and Opening Address 2	Prof. MTINGWA, Sekazi
<b>Scientific Talks: Block 1 – Auditorium</b> <b>Chair: Prof. Winick, Herman (SLAC, Stanford Univ.)</b>		
09:50	Reviewing the value of synchrotrons for Sasol; relevance of research at synchrotrons for African Industries	Dr. DU PLESSIS, Hester (Sasol)
10:20	Pore Scale Investigations of Forced Imbibition/Drainage in Porous Media Studied by in situ X-Ray Microtomography	Prof. SEEMANN, Ralf (Saarland Univ. & MPI-DS, Göttingen)
10:50	<i>Tea and Coffee</i>	
<b>Scientific Talks: Block 2 - Auditorium</b> <b>Chair: Mr. Ntsoane, Tshepo (Necsa)</b>		
11:30	Synchrotron Radiation and Structural Biology	Prof. LARSEN, Sine (Copenhagen Univ.)
12:00	Angle Resolved Photoemission Spectroscopy Study of Sr <sub>4</sub> Ru <sub>3</sub> O <sub>10</sub> single crystals and Intrinsic Bi <sub>2</sub> Te <sub>3</sub> Topological Insulator Thin Films	Mr. NGABONZIZA, Prosper (Twente Univ., MESA+ Inst. for nanotech)
12:20	Residual stress analyses using diffraction techniques	Dr. VENTER, Andrew (Research and Dvlpt Div. Necsa SOC Limited; DST-NRF)
12:40	Beta-cyclodextrin decreases the aggregation rate of prion proteins induced by metal-catalyzed oxidation	Dr. ELMALLAH, Mohammed (Dept of Chemistry - Faculty of Science - Helwan Univ.)
13:00	<i>Lunch - On-site restaurant</i>	
<b>Scientific Talks: Block 3 - Auditorium</b> <b>Chair: Dr. McLaughlin, Krystle (Lehigh University)</b>		
14:20	Science and Technology Development at Light Source Facilities around the World	Dr. SHEN, Qun (BNL)
14:50	X-ray study of nanosized multilayer heterostructures	Mr. LIKHACHEV, Igor (NRC)
15:10	Structural Analysis of L-asparaginase from novel source as a Promising Drug Target in the Treatment of Childhood Acute Lymphoplasic Leukemia	Dr. ESSAWY, Ehab (Helwan Univ.)
15:30	One hydrogen bond does not a separation make, or does it?-The importance of high resolution structural data	Dr. BATHORI, Nikoletta (Cape Peninsula Univ. of technology)
15:50	<i>Tea and Coffee</i>	
<b>Scientific Talks: Block 4 – Auditorium</b> <b>Chair: Dr. OLADIJO, Oluseyi Philip (Botswana Intern. Univ. of Science &amp; Technology)</b>		
16:20	Biosciences using synchrotron infrared microspectroscopy	Dr. DUMAS, Paul (SOLEIL Synchrotron)
16:50	Organic and inorganic layered systems study by X-ray standing wave technique	Dr. TERESCHENKO, Elena (NRC)
17:10	Depth-resolved and fatigue studies of thermal sprayed hydroxyapatite coatings	Mr. NTSOANE, Tshepo (Necsa)
17:30	Pulsed laser deposited Cr <sub>2</sub> O <sub>3</sub> nanostructured thin film on graphene as anode material for lithium-ion batteries	Dr. KHAMLICH, Saleh (S.A. Univ.)
19:00	<i>Dinner ESRF - On-site restaurant</i>	





<b>Tuesday 17 November</b>		
<b>Scientific Talks: Block 5 - Auditorium</b>		
<b>Chair: Dr. KOBOR, Diouma (Univ. Assane Seck of Ziguinchor)</b>		
09:00	4D in situ microtomography in materials science	Prof. SALVO, Luc (SIMAP-GINP-UGA)
09:30	Kurchatov synchrotron: present state and upgrade program	Dr. SENIN, Roman (NRC)
09:50	X-ray Physicochemical Imaging of Catalysts Under Working Conditions	Prof. BEALE, Andrew (Univ. College London)
10:20	Integrating synchrotron technology into the palaeosciences in South Africa	Dr. CARLSON, Kristian (Wits)
10:40	<i>Tea and Coffee</i>	
<b>Scientific Talks: Block 6 - Auditorium</b>		
<b>Chair: Dr. Kamel, Gihan (SESAME)</b>		
11:10	Optimization of Renewable Energy Processes: Projects at the Synchrotron Radiation Facility PETRA III	Dr. SEECK, Oliver (DESY)
11:40	XAS investigation of 'invisible' gold impurities in synthetic sulfide minerals	Dr. TRIGUB, Alexander (NRC)
12:00	Towards Structural Characterization of Novel Bacteriophage Proteins	Dr. MCLAUGHLIN, Krystle (Lehigh Univ.)
12:20	The Use of Diffraction to Determine the Residual Stress of HVOF WC-17Co Coatings	Dr. OLADIJO, O.P. (1) Univ. of Science & Technology (2) Wits (3) DST/NRF
12:40	Application of iron L3 edge XANES spectroscopy to colloid speciation	Mr. VON DER HEYDEN, Bjorn (Stellenbosch Univ.)
13:00	<i>Lunch - On-site restaurant</i>	
<b>Scientific Talks: Block 7 - Auditorium</b>		
<b>Chair: Mr. NGABONZIZA, Prosper (Twente Univ., MESA+ Inst. for nanotech)</b>		
14:20	African projects at the IPANEMA research platform for ancient materials. Perspective within the European research infrastructure for Heritage science.	Dr. BERTRAND, Loïc (IPANEMA, CNRS, MCC, Paris-Saclay)
14:50	Fabrication and characterisation of high temperature operating light emitting diodes from Silicon Carbide	Mr. MUNTHALI, Kinnock Vundawaka (Univ. of Pretoria & Univ. of Namibia)
15:10	African Synchrotron Science : A personal perspective	Prof. BILLING, David (Wits)
15:30	Non-mechanical ultrafast tunable X-Ray optics (X-Ray acoustic elements and bending crystals): advantages and possibilities.	Mr. ELIOVICH, Ian (IC RAS)
15:50	<i>Tea and Coffee</i>	
<b>Scientific Talks: Block 8 - Auditorium</b>		
<b>Chair: Dr. BOUTEFNOUCHET, Hafida (Laboratoire de Métallurgie et Génie des Matériaux)</b>		
16:20	Synchrotron imaging and the African fossil record: a decade of collaboration	Dr. FERNANDEZ, Vincent (ESRF) Dr. TAFFOREAU, Paul (ESRF)
16:50	TANGO - a mature Open Source collaborative framework for building control systems	Mr. GOTZ, Andrew (ESRF) Mr. CHAIZE, Jean-Michel (ESRF)
17:10	Light Sources for Materials and the AflS context	Prof. BILLINGE, Simon (Columbia Univ.)
17:40	<b>Poster Session - Outside Auditorium</b>	
19:45	<i>Dinner ESRF - On-site restaurant</i>	



<b>Wednesday 18 November</b>		
09:45	<i>Tea and Coffee</i>	
10:30	Tour of the ESRF facilities and laboratories	
12:30	Group Photo - Meeting point ESRF central building entrance hall	
12:40	<i>Lunch - On-site restaurant</i>	
<b>Welcome and Opening - Auditorium</b>		
14:00	Welcome and Opening Address 3	Dr. SETTE, Francesco (ESRF)
14:10	Welcome and Opening Address 4	Prof. ALLOTEY, Francis Ampenyin (African Physical Society)
<b>Policy and Strategy Talks: Block 1 - Auditorium</b> <b>Chair: Prof. Mitchell, Edward (ESRF)</b>		
14:20	Outline of Policy Session and the AfLS Vision	Prof. CONNELL, Simon (Johannesburg Univ.)
14:40	International Co-operation	Ms. PILLAY, Vinny (DST)
15:00	Review of synchrotron-based activities in South Africa	Mr. NTSOANE, Tshepo (Necsa)
15:20	<i>Tea and Coffee</i>	
<b>Policy and Strategy Talks: Block 2 - Auditorium</b> <b>Chair: Dr. DU PLESSIS, Hester (Sasol)</b>		
15:50	Remote Access at the ESRF's Structural Biology Beamlines	Dr. LEONARD, Gordon (ESRF)
16:10	The Impact of Synchrotron Radiation on Science and Society in Developing Countries	Prof. WINICK, Herman (SLAC)
16:30	EU-Africa collaboration on cutting edge research challenges	Mr. DI GIULIO, Antonio (Euro Commission)
<b>Plenary Discussion: Block 1 - Auditorium (16:50-17:20)</b> <b>Chair: Dr. MTINGWA, Sekazi (Massachusetts Inst. of Technology &amp; BNL &amp; African Laser Centre)</b>		
17:30	<b>Grenoble's Art Museum - Buses depart from ESRF</b>	
19:00	<i>Dinner Banquet - Restaurant Le 5 - Downtown Grenoble</i>	



<b>Thursday 19 November</b>		
<b>Policy and Strategy Talks: Block 3 - Auditorium</b> <b>Chair: Dr. DIALE, Mmantsae (Univ. of Pretoria)</b>		
09:00	The African Laser Centre: A Model for African Collaborations	Prof. MTINGWA, Sekazi (Triangle Science, Education & Economic Dvlpt, LLC)
09:20	Brazilian Synchrotron Light Laboratory – LNLS: from scratch to a state-of-the-art machine in 30 years	Prof. ROQUE DA SILVA, Antonio Jose (Brazilian Synchrotron Light Laboratory)
09:40	International cooperation schemes at DESY	Dr. SEECK, Oliver (DESY)
<b>Plenary Discussion: Block 3 – Auditorium</b> <b>Chair: Dr. MTINGWA, Sekazi (Massachusetts Inst. of Technology &amp; BNL &amp; African Laser Centre)</b>		
10:30	<i>Tea and Coffee</i>	
<b>Policy and Strategy Talks: Block 4 – Auditorium</b> <b>Chair: Prof. BILLING, David (Univ. of the Wits)</b>		
11:00	The ESRF model: history, governance, access, key facts and figures and socio-economic impact	Mrs. ECHEVERRIA, Itziar (ESRF)
11:20	Overview : Synchrotron Light Source Machines	Prof. EINFELD, Dieter (ESRF)
11:40	The role of International Physics Organizations	Prof. SCANDOLO, Sandro (ICTP)
<b>Plenary Discussion: Block 4 – Auditorium</b> <b>Chair: Dr. MTINGWA, Sekazi (Massachusetts Inst. of Technology &amp; BNL &amp; African Laser Centre)</b>		
12:30	<i>Lunch - On-site restaurant</i>	
<b>Policy and Strategy Talks: Block 5 – Auditorium</b> <b>Chair: Dr. HARTWIG, Jürgen (ESRF)</b>		
13:50	The Vision of Egypt for the AfLS	Dr. KAMEL, Gihan (SESAME)
14:10	Role of the African Physical Society Towards an African Light Source	Prof. ALLOTEY, Francis Kofi Ampenyin (African Physical Society)
14:30	Our plan of schools and practical trainings to contribute to the African Light Source project	Prof. ABE, Hitoshi (Photon Factory, IMSS, KEK)
14:50	The contribution of the IUCr to the development of scientific education, research and infrastructure in Africa	Dr. ZEMA, Michele (IUCr)
<b>Plenary Discussion: Block 3 - Auditorium (15:10-15:40)</b> <b>Chair: Dr. MTINGWA, Sekazi (Massachusetts Inst. of Technology &amp; BNL &amp; African Laser Centre)</b>		
15:40	<i>Tea and Coffee</i>	
<b>Election of Steering Committee - Auditorium (16:10-16:40)</b> <b>Chair: Mr. MASARA, Brian (SAIP)</b>		
<b>Discussion: Block 1: Finalise Workshop Resolutions - Auditorium (16:40-18:10)</b> <b>Chair: Dr. MTINGWA, Sekazi (Massachusetts Inst. of Technology &amp; BNL &amp; African Laser Centre)</b>		
18:40	<i>Dinner ESRF - On-site restaurant - "Wine &amp; Cheese Tasting"</i>	



<b>Friday 20 November</b>	
<b>Discussion: Block 2: Finalise Terms of Reference - Auditorium (09:00-10:20)</b> <b>Chair: Dr. MTINGWA, Sekazi (Massachusetts Inst. of Technology &amp; BNL &amp; African Laser Centre)</b>	
10:20	<i>Tea and Coffee</i>
<b>Discussion: Block 3: Finalise Roadmap - Auditorium (10:50-12:00)</b> <b>Chair: Dr. MTINGWA, Sekazi (Massachusetts Inst. of Technology &amp; BNL &amp; African Laser Centre)</b>	
<b>Launch and Closing Remarks - Auditorium (12:00-12:30)</b> <b>Chair: Prof. CONNELL, Simon (Univ. of Johannesburg)</b>	
12:30	<i>Lunch - On-site restaurant</i>