

Sixth workshop on Energy for Sustainable Science in Research Infrastructures ESSRI

29-30 September 2022

Organized by CERN / ESS / DESY / PSI / ERF,

Hosted by ESRF

Practical Information

JL Revol

On behalf of the International and Local Organising Committee



The European Synchrotron



6th Workshop

**Energy for
Sustainable
Science**

at Research Infrastructures

Welcome at the ESRF on behalf of the International Organizing Committee and the Local Organizing Committee



Please do not hesitate to contact us
and especially
Sandra, Philippa and Anne-Francoise
in case of needs



MASTER PROGRAMME

Thursday Morning

Plenary session	09:00	Auditorium
Coffee Break	10:30	Central building (outside ... if weather OK)
Group Photo	10:55	Central building (outside ... if weather OK)
Plenary session	11:15	Auditorium
Lunch :	12:45	Canteen first floor

JEUDI 29
Matin
 12°
▲ 15 km/h

Morning

Après-midi

 14°
▲ 15 km/h

Afternoon

Soirée

 12°
▲ 10 km/h

Nuit

 8°
▼ 10 km/h

Thursday Afternoon

// Session	14:00	in Room MD1-21 (smaller room) and Auditorium (larger)
Coffee Break	15:40	Under the awning of ESRF1 (outside)
// Session	16:00	in Room MD1-21 (smaller room) and Auditorium (larger)
Cocktail and dinner	19:00	Bouillon A

Friday Morning

Summary // session	08:30	Auditorium
Plenary session	10:00	Auditorium
Coffee Break	10:30	Central building (outside)
Plenary session	10:50	Auditorium

VENDREDI 30
Matin
 9°
🕒 5 km/h

Morning

Après-midi

 15°
▲ 15 km/h

Soirée

 12°
▲ 15 km/h

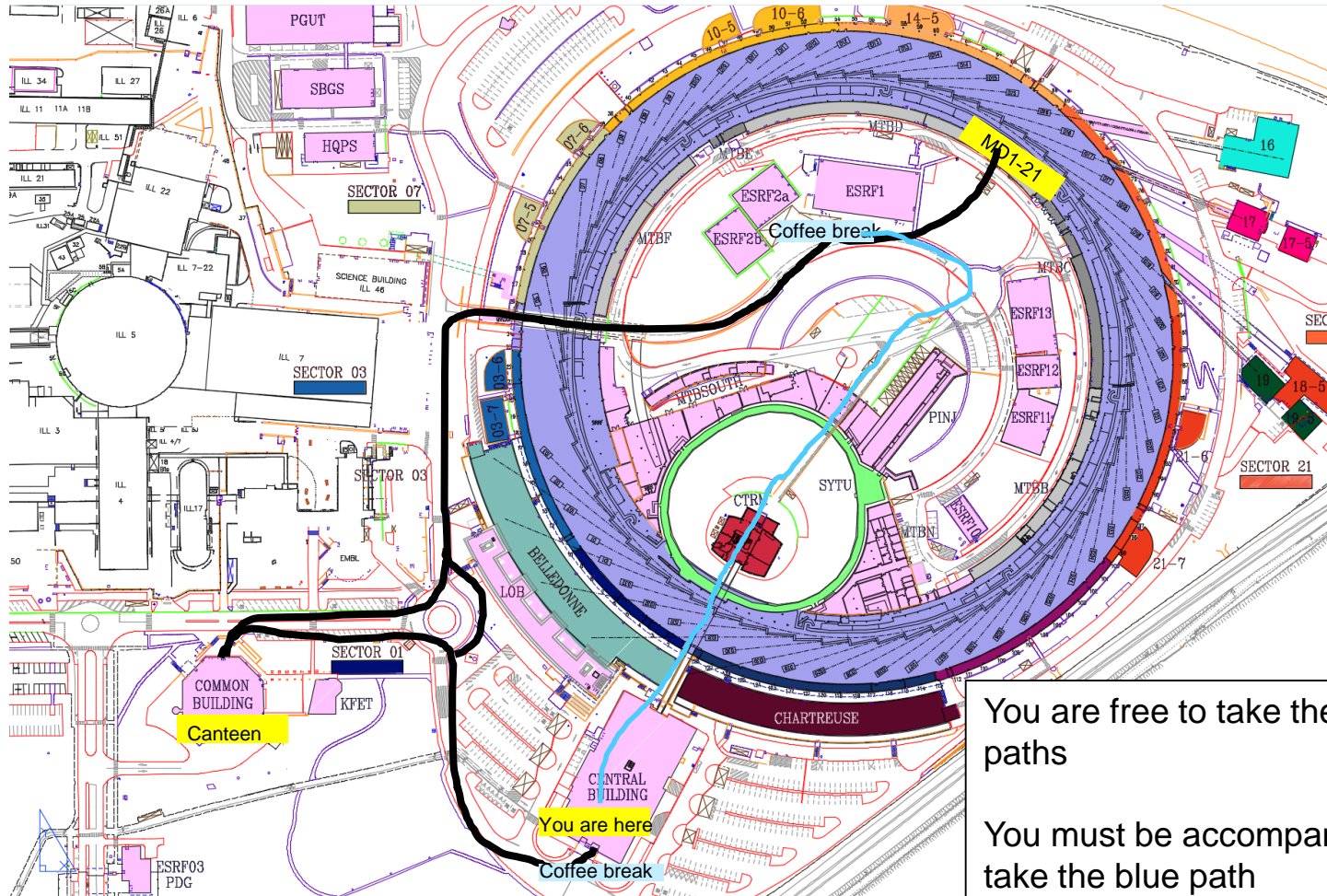
Nuit

 8°
🕒 5 km/h

Lunch : 12:35 Take away from welcome desk central building

Visit From 12:50 According to the schedule

VISUAL MAP TO MOVE ON THE ESRF SITE



You are free to take the black paths

You must be accompanied to take the blue path

COVID MANDATORY RULES

This workshop was postponed due to COVID and the IOC is pleased to organize it today in face to face, thanks to the ESRF.

But **COVID is still there** and we have to be prudent:

- Wear face mask
- Regular washing of hands and use of hydrogel

Masks at **all times** in the auditorium and in the room MD-1-21 except the speaker

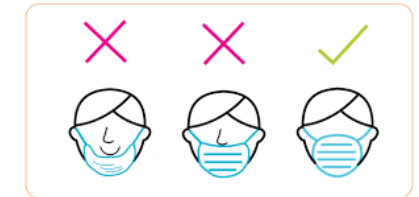
During coffee breaks:

Inside: participants must maintain 1 m distance, and avoid assemblies of more than three people

If possible **go outside** to take coffee

Avoid all kind of large gatherings

➔ *Fresh air in any case will be good after a long stay in the auditorium !!!*



You can find masks at the entrance of each room and at the welcome desk



NOTRE HISTOIRE NOS PRODUCTEURS NOTRE CARTE VENTE À EMPORTER CONTACT

BOUILLON

CUISINE Saine ET GOURMANDE ACCESSIBLE AU PLUS GRAND NOMBRE

VIE
LOCALE
GOURMAND
CUISINE MAISON

UN LIEU VIVANT, CONVIVIAL ET POPULAIRE

LE RESTAURANT LE BOUILLON A SERT À LA TABLE LES RECETTES DE NOS MÈRES ET NOS GRANDS MÈRES LES PLUS INCONTOURNABLES, REMISES AU GOUT DU JOUR AVEC AMOUR, SIMPLICITÉ ET GÉNÉROSITÉ. DE BONS PLATS REVIDGANTS QU'ON A PLAISIR À DÉGUSTER ENTRE AMIS. EN FAMILLE OU EN SOLO, SUR PLACE OU À LA MAISON. DÉCOUVREZ UN RESTAURANT À GRENOBLE QUI OFFRE LA POSSIBILITÉ D'APPRECIER UNE CUISINE Saine ET GOURMANDE, ACCESSIBLE AU PLUS GRAND NOMBRE.



"IT IS A CHALLENGE FOR US TO PROVIDE CONSCIOUS AND REASONED CUISINE ON A LARGE SCALE. A CHALLENGE I WISH TO TAKE UP TO BRING THE SUBJECT OF VIRTUOUS FOOD TO THE GENERAL PUBLIC."

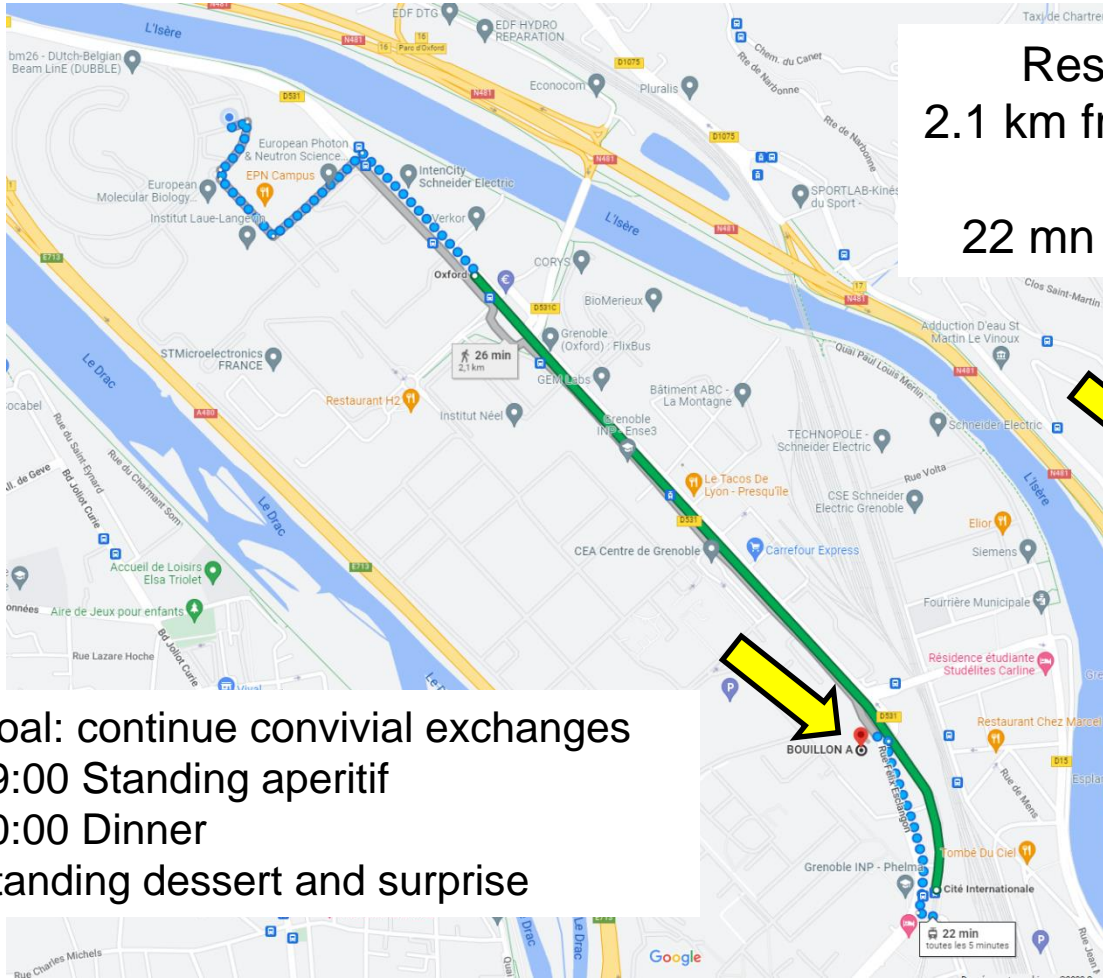
CHRISTOPHER ARIBERT

DO YOU KNOW the HISTORY? BORN IN THE MIDDLE OF THE 19TH CENTURY IN PARIS, BROTHS WERE ORIGINALLY USED FOR HEALTHY DISHES INCLUDING BOILED MEAT AND BROTH... HENCE THE NAME! TODAY, NO MORE MEAT BROTH BUT ALWAYS THE SAME CREDO: BEAUTIFUL, AFFORDABLE AND GOOD!

After three years of activity at his first establishment, Maison Aribert in Uriage, bringing the concept of Bouillon to Grenoble was the logical continuation of Christophe Aribert's commitment to spreading good food to as many people as possible. The name Bouillon A insinuates the mixture of old and new, a style that has become very specific to the chef. "Bouillon" for the vintage side of traditional broths with their popular, warm and affordable atmosphere. On the menu: the great classics of French gastronomy. At the table: families, lovers, businessmen, artists, workers or celebrities... In short, a real jumble of individuals who circulate at any time of the day, from morning to evening, welcomed by an effervescent team. "A" for the signature of Christophe Aribert wishing to capitalize on the existing by injecting his eco-responsible vision, respectful of the living, of natural cycles, of the seasons, of the earth. In the architecture: clean materials, European furniture, artisanal outfits. On the plate: fruits, seasonal vegetables, meat and fish from the region.

HOW TO GO TO THE RESTAURANT

Restaurant Le Bouillon A:
2.1 km from ESRF central Building
27 mn by foot
22 mn by Tram (Cité internationale)



Goal: continue convivial exchanges
19:00 Standing aperitif
20:00 Dinner
Standing dessert and surprise



ESRF AND LNCMI VISIT ON FRIDAY AFTERNOON

Presenters:

ESRF Control Room

Jean-Luc



ID32 Beamline

Flora



LNCMI

Francois



SSA RF stations

Pawel



Visit on Friday 30 September afternoon

Guide	Group 1 (Fastest)	Group 2 (Complete)	Group 3 (Fast to leave ESRF)	Group 4 (Complete and fast to leave)	Group 5 (No Rush)
	Lee (Beam Dynamics)	Friederike (Diagnostics)	Simone (Beam Dynamics)	Lina (Beam Dynamics)	Elena (Diagnostics)
	12:35 Take away lunch (outside if possible)	12:35 Take away lunch (outside if possible)	12:35 Take away lunch (outside if possible)	12:35 Take away lunch (outside if possible)	12:35 Take away lunch (outside if possible)
	Meeting point 12:50 ESRF entrance hall	Meeting point 12:50 ESRF entrance hall	Meeting point 13:10 ESRF entrance hall	Meeting point 13:10 ESRF entrance hall	Meeting point 13:20 ESRF entrance hall
	12:50 Meet + transfer CTRM	12:50 Meet + transfer To LNCMI (30 mn)	13:10 Meet + transfer CTRM	13:10 Meet + transfer RF	13:20 Meet + transfer To LNCMI (30 mn)
	13:00 CTRM (20 mn + 5 mn. transfer)	13:20 CTRM (20 mn + 5 mn. transfer)	13:20 CTRM (20 mn + 5 mn. transfer)	13:20 SSA (5 mn transfer + 25 mn)	13:50 LNCMI (20 mn)
	13:25 ID32 (5mn transfer+20 mn)	13:50 Back LMC	13:50 ID32 (5mn. transfer+20 mn)	13:50 CTRM (20 mn + 5 mn. transfer)	14:20 Back LMC
	13:50 transfer To LCM1 (30 mn)	14:20 CTRM (20 mn + 5 mn. transfer)	14:20 transfer To LCM1 (30 mn)	14:20 ID32 (5mn. transfer+20 mn)	14:50 CTRM (20 mn + 5 mn. transfer)
	14:20 LNCMI (20 mn)	14:50 ID32 (5mn. transfer+20 mn)	14:50 LNCMI (20 mn)	14:50 transfer To LCM1 (30 mn)	15:20 ID32 (5mn. transfer+20 mn)
	14:40 Free	15:20 SSA (5 mn transfer + 25 mn)	15:50 Free	15:20 LNCMI (20 mn)	15:50 Free to leave ESRF
	15:40	15:50 Free to leave ESRF	16:20	15:50 Free	16:20
	16:10	16:20		16:20	

- 4 places to see
- 5 groups with a dedicated expert guide
- Different duration and starting time to allow some of you to leave earlier
- Write your name on the dedicated boards
- Maximum 20 persons / group
- Wear mask during the visit
- Take good shoes and coat for the transfers

OUR WORKSHOP IS... GREEN

Plenary Session	
	Room: ESRF Auditorium
	Convener: F. Bordry, CERN
09:00	Welcome – F. Sette, ESRF Director General
09:10	Introduction – F. Bordry, CERN
09:20	Practical information – J.L. Revol, ESRF
09:30	Climate change is accelerating. We need to move much faster – M. Jarraud, World Meteorological Organization
10:00	Energy Transition: towards a complex cyber-physical system of systems – L. Saludjian, RTE
10:30	Coffee break & Photo – ESRF Central Building Entrance Hall
11:15	Electrical Flexibility Market – B. Remenyi & C. Gaunand, Energy Pool
11:45	Energy management at Stanford University – L. Bleveans, Stanford University
12:15	ERLs and Sustainability – A. Hutton, Jefferson Lab
12:45	Lunch - onsite restaurant

- The full programme is available on the workshop website including the practical information
- You should be able to connect via the WIFI password given to each of you or via eduroam
- The programme is readable at the entrance of the auditorium

Parallel Session	Parallel Session
Energy efficient technologies	Energy management at research infrastructures
Room: MD-1-21	Room: ESRF Auditorium
Convener: D. Voelker, DESY	Convener: J.L. Revol, ESRF
14:00 Challenges of a megawatt CW class solid state power amplifier for the SPS at CERN – E. Montesinos, CERN	An overview of the status of energy sustainability at the European Spallation Source (ESS) – M. Eshraqi, ESS
14:25 Progress with permanent magnets and return on experience – J. Chavanne, ESRF	Energy optimisations implemented at accelerators and infrastructures at PSI – D. Reinhard, PSI
14:50 Free Air cooling solution for the Data Centers – L. Roy, CERN	Energy management at High Magnetic Field Facilities – F. Debray, CNRS Grenoble
15:15 Energy management University Darmstadt – C. Ripp	ESRF EBS energy management – C. Nevo, ESRF

15:40 Coffee break – ESRF01	
Parallel Session	Parallel Session
How will projects deal with energy and sustainability	Energy management at research infrastructures and materials
Room: MD-1-21	Room: ESRF Auditorium
Convener: M. Eshraqi, ESS	Convener: S. Claudet, CERN
16:00 Sustainability at Fermilab and the PIP-II Project – T. Price, Fermi National Accelerator Laboratory	A big science facility as a living-lab for energy transition: the LNCMI use case – F. Wurtz, G2ELAB-CNRS-UGA
16:25 Sustainability studies for Linear Colliders – S. Staphes, CERN	ISO 50001 Energy management – N. Bellegarde / S. Claudet, CERN
16:50 Investigating energy futures: The KITTEN test facility for sustainable research infrastructures – G. De Carne, KIT	Water, reduction in consumption and treatment of effluents from cooling towers – S. Deleval, CERN
17:15 Sustainable accelerator R&D in the UK – B. Shepherd	Rare earth and Life cycle management – D. Voelker, DESY
17:40 Closeout	Superconducting alternative magnets – L. Rossi, INFN
18:05 Closeout	Closeout
19:00	Workshop Cocktail & Dinner: 'Bouillon A' restaurant, Grenoble

Plenary Session	
	Room: ESRF Auditorium – ESRF Central Building
	Convener: F. Bordry, CERN
08:30	Summary: Energy efficient technologies – D. Voelker, DESY
08:45	Summary: How will projects deal with energy and sustainability? – M. Eshraqi, ESS
09:00	Summary: Energy management at research infrastructures – J.L. Revol, ESRF
09:15	Summary: Energy management at research infrastructures and materials – S. Claudet, CERN
09:30	Summary: Energy management for the Future Circular Collider (FCC) – J.P. Burnet, European Organisation for Nuclear Research
10:00	Efforts to save Energy consumption in KEK accelerator facilities – T. Koseki, KEK
10:30	Coffee break - Auditorium
10:50	Advanced energy concepts and energy efficiency – HJ. Eckoldt, DESY
11:20	Transmutation of Nuclear Waste with Accelerator-driven Systems – M. Bourquin, Genova University
11:50	EBS: A New Light for Science - first scientific highlights – M. Krisch, ESRF
12:20	Closing remarks and next workshop – J.L. Revol, ESRF & J.M. Perez, CIEMAT
12:35	Take-away lunch
13:30	Facility tours (optional): ESRF, LNCMI
16:00	End of workshop

OUR WORKSHOP IS... GREEN

- You get a 2 days tramway ticket, please do not forget to give it back to the organisers if you do not use it.
- You will get cardboard glass during coffee break, please re-use it also if you want to get water during the session
- Big water glass bottle will be available during the workshop
- Documentation on the ESRF is available at the back of the auditorium, please do not hesitate to take it... but it is also available on the ESRF website
- Return your badge at the end of the workshop

NO GOODIES....

But an eco responsible surprise green and black ...
at the end of the dinner !!



Green

&

Black

MANY THANKS FOR YOUR ATTENTION



We wish you a nice and fruitful workshop

