



# IEEE PES Lausanne PowerTech'07 1-5 July 2007

## **FINAL PROGRAM**

Lausanne – EPFL campus  
July 1 (Sunday) – 5 (Thursday), 2007

### **Sunday, July 1**

|             |   |
|-------------|---|
| 17h00-20h00 | Conference registration<br>Olympic Museum in Lausanne-Ouchy |
| 18h00-20h00 | Welcome reception<br>Olympic Museum in Lausanne-Ouchy       |

### **Monday, July 2**

|             |   |
|-------------|---|
| 08h45-09h30 | Continental breakfast<br>Palais de Beaulieu, Lausanne, rooms 330 and 340, |
| 09h30-11h15 | Plenary Session<br>Palais de Beaulieu – Rome room                         |

#### **Welcome addresses**

- Hans-Björn Püttgen, General Chair, PowerTech '07
- Demetri Psaltis, Dean of School of Engineering, EPFL
- John D. McDonald, IEEE PES President
- Carlo Alberto Nucci, Chairman of the International Steering Committee
- Eric Davalle, Chief of Electricity Public Utilities of Lausanne

#### **Horizon 2030: the key R&D challenges in the electric utility industry**

- Pierre Bornard, COO RTE, France
- Pat Naidoo, Executive assistant to the CEO, ESKOM, South Africa
- Hans Schweickardt, CEO, EOS Holding, Switzerland

|             |  |
|-------------|--|
| 11h30       | Transport by bus from Palais de Beaulieu to EPFL                 |
| 12h00-13h45 | Lunch<br>Restaurant Le Parmentier and Polydôme Hall, EPFL campus |
| 11h30-16h00 | Conference registration<br>Hall CO2, EPFL                        |
| 14h00-15h45 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16,                  |
| 15h45-16h05 | Coffee break<br>Hall CO2   |
| 16h05-17h45 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16                   |

## ***Tuesday, July 3***

|             |  |
|-------------|--|
| 08h00-16h00 | Conference registration<br>Hall CO2                              |
| 08h45-10h30 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16                   |
| 10h30-10h50 | Coffee break and Poster session<br>Hall CO2, level 2             |
| 10h50-12h30 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16                   |
| 12h45-13h45 | Lunch<br>Restaurant Le Parmentier and Polydôme Hall, EPFL campus |
| 13h45-14h30 | Coffee and Poster session<br>Hall CO2, level 2                   |
| 14h30-15h35 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16                   |
| 15h35-15h55 | Coffee break and Poster session<br>Hall CO2, level 2             |
| 15h55-17h30 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16                   |

### **Optional – additional fee evening – Boat ride from St-Sulpice harbour to Chillon Castle**

|       |   |
|-------|---|
| 17h00 | For those who are not at EPFL : Meeting in Ouchy-Lausanne                 |
| 17h15 | Departure by bus from Ouchy-Lausanne to St-Sulpice harbour                |
| 17h40 | For those who are at EPFL : Departure of the busses to St-Sulpice harbour |
| 18h10 | Departure of the boat from St-Sulpice harbour to Chillon Castle           |
| 20h00 | Arrival at Chillon Castle   |
| 20h15 | Aperitif and dinner at Chillon Castle.                                    |
| 22h45 | Return from Chillon Castle to Lausanne by bus                             |
| 23h30 | Arrival in Lausanne   |

## ***Wednesday, July 4***

|             |  |
|-------------|--|
| 08h00-16h00 | Conference registration<br>Hall CO2                              |
| 08h45-10h30 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16                   |
| 10h30-10h50 | Coffee break and Poster session<br>Hall CO2, level 2             |
| 10h50-12h30 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16                   |
| 12h45-13h45 | Lunch<br>Restaurant Le Parmentier and Polydôme Hall, EPFL campus |
| 13h45-14h30 | Coffee and Poster session<br>Hall CO2, level 2                   |
| 14h30-15h45 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16                   |
| 15h45-16h05 | Coffee break and Poster session<br>Hall CO2, level 2             |
| 16h05-17h45 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16                   |

## **Closing dinner at La Porte-des-Iris in Vullierens**

|       |   |
|-------|---|
| 17h45 | For those who are not at EPFL : Meeting in Ouchy-Lausanne     |
| 18h00 | Departure by bus from Ouchy-Lausanne                          |
| 18h15 | For those who are at EPFL : Departure by bus from EPFL campus |
| 19h00 | Aperitif at "La Porte des Iris" in Vullierens                 |
| 20h00 | Closing dinner at "La Porte des Iris" in Vullierens           |
| 23h15 | Return by bus from Vullierens to Lausanne                     |
| 23h45 | Arrival in Lausanne   |

## ***Thursday, July 5***

|             |  |
|-------------|--|
| 08h00-12h00 | Conference registration<br>Hall CO2  |
| 08h45-10h30 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16   |
| 10h30-10h50 | Coffee break and Poster session<br>Hall CO2, level 2   |
| 10h50-12h30 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16   |
| 12h45-13h45 | Lunch and Basil Papadias Best Student Paper Award<br>Restaurant Le Parmentier and Polydôme Hall, EPFL campus |
| 14h00-16h05 | Technical Sessions<br>Rooms CO 1, 2, 3, 15, 16   |
| 09h00-16h00 | Chapter Chairs meeting<br>Room CO 216  |

# General Information

## Conference Location

Located along Lac Lemman - Lake of Geneva - among vineyards, Lausanne is Switzerland fifth largest city. Located in the French speaking part of the country, Lausanne overlooks the lake, which is the largest one in Western Europe, and faces the majestic splendour of the snow-capped Alps.

Since 1915, Lausanne has been the seat of the International Olympic Committee and in 1994 it was designated Olympic Capital, a unique and prestigious title.

Lausanne is also an excellent departure point for a large choice of special excursions, several of which will be proposed to the participants and accompanying persons. The Sunday evening opening reception is scheduled to be held in the prestigious Olympic Museum, inaugurated in 1993 along the lakeshore, which offers a breathtaking view on the French Alps. PowerTech participants will also have the opportunity to take a private cruise along the lake shoreline culminating in a step back into the past with dinner in the famous Castle of Chillon built, during the ninth century, in the lake and made famous by Lord Byron and his poem "The prisoner of Chillon". The closing gala dinner is scheduled take place in a typical and special setting next to a castle in the countryside.

## Conference Venue

A plenary session will be held at the Palais de Beaulieu, av. des Bergières 10, 1004 Lausanne (see location map).

The technical sessions (oral and posters) will be held at the Ecole Polytechnique Fédérale de Lausanne (EPFL), 1015 Lausanne (see location map) in the CO building, in rooms CO1, CO2, CO3, CO15, CO16, on levels 0, 1, 2, 3. Poster sessions will be held in the corridor of level 2.

## Authors' Information

**Oral presentation:** Authors will have to be available ca. 15 minutes for their presentation, plus a few minutes for discussion. Authors are kindly recommended to be present in the room where their presentation is scheduled about 15 minutes before the beginning of the session, in order to receive additional information from the Session Chair. Each session room is equipped with an overhead projector, a video-beam projector and a computer (with Microsoft Office installed).

Should the use of video-beam projector be planned, authors should care to bring with them the final file on CD-Rom or USB device. Presentation materials may be checked before the opening of each session. For details, please refer to [this pdf file](#).

**Poster presentation:** 120 cm wide and 180 cm high poster boards will be available. The usable size for posters is A0 (84 cm wide and 118 cm high). Authors are invited to stay near their poster all long the poster session in order to clarify and discuss details concerning their work with interested colleagues. Authors are invited to be in the poster hall 15 minutes before the beginning of the poster sessions in order to receive additional information. Placement of posters will be possible from Monday, July 2, 2:00 pm.

## Conference Registration

In order to participate to the Lausanne PowerTech'07 activities, one must register with the conference.

## Registration Fees (Vat Included)

|                                | Early (Feb 1-<br>May 16) | Regular (May<br>17-June 30) | On-site (July<br>1-5) |
|--------------------------------|--------------------------|-----------------------------|-----------------------|
| <b>IEEE PES</b>                | 550 EUR                  | 700 EUR                     | 800 EUR               |
| <b>IEEE</b>                    | 575 EUR                  | 725 EUR                     | 825 EUR               |
| <b>Non-member</b>              | 675 EUR                  | 775 EUR                     | 925 EUR               |
| <b>Students</b>                | 250 EUR                  | 250 EUR                     | 250 EUR               |
| <b>Accompanying<br/>Person</b> | 150 EUR                  | 150 EUR                     | 150 EUR               |

The full and student registration fees include admission to technical oral and poster sessions, opening reception at the Musée Olympique, Lausanne, Closing dinner at La Porte-des-Iris, Vullierens, CD-Rom

proceedings, coffee breaks, lunches on site, bag and documentation, travel card for 5 days on Lausanne public transports.

Accompanying person fee includes opening reception at the Musée Olympique, Lausanne, Closing dinner at La Porte-des-Iris, Vullierens, bag and documentation, travel card for 5 days in Lausanne.

**IMPORTANT: Please note that for registrations on site, no cash is accepted. Payments can be done only by credit card (Visa, Eurocard/Mastercard, American Express).**

### **Additional Options**

Extra proceedings (CD-Rom): 50EUR can be available at the registration desk. **Only payments by credit card or checks will be accepted.**

### **Registration Desk**

The conference registration desk will be located on Sunday July 1 at the Musée Olympique, then at EPFL, hall CO2.

Registration desk opening hours:

Sunday, July 1, Musée Olympique: 5:00 pm to 8:00 pm

Monday, July 2, EPFL: 1:00 pm to 4:00pm

Tuesday, July 3, EPFL: 8:00 am to 4:00 pm

Wednesday, July 4, EPFL: 8:00 am to 4:00 pm

Thursday, July 5, EPFL: 8:00 am to 12:00 am

### **Welcome Desk**

A welcome desk of the Lausanne Tourist Office will be at your disposal for all kind of information. It will be located on Sunday July 1 at the Musée Olympique, then at EPFL, hall CO2.

Welcome desk opening hours:

Sunday, July 1, Musée Olympique: 5:00 pm to 8:00 pm

Monday, July 2, EPFL: 12:00 pm to 4:00pm

Tuesday, July 3, EPFL: 10:30 am to 3.30 pm

Wednesday, July 4, EPFL: 10:30 am to 2:30 pm

### **Chapter Chairs**

The chapter Chairs meeting will be held on Thursday July 5, in room CO216. A special welcome desk will be set up in hall CO2.

### **Badges**

Badges are required for admission to the opening ceremony, all technical sessions, oral and poster presentation, and coffee breaks. Every one is asked to wear the badges on the conference area.

### **Internet Point**

Lausanne PowerTech'07 provides attendees with an internet room (CO6) which gives complimentary internet access during the conference to check e-mails. The participants will also have the possibility to connect directly their notebooks to the web, and the wireless access will be possible with the code which will be communicated to the participants on site. Printing of documents will not be possible.

### **Message Board**

A board for messages will be placed near the registration desk in the CO2 hall. Messages can be received and posted during the registration desk opening hours.

### **Official Language**

English is the official language of the conference.

### **Coffee Breaks and Lunches**

Morning and afternoon coffee breaks will be offered on Monday, Tuesday, Wednesday and Thursday at the time mentioned in the program layout. The lunches are served in two different restaurants on the EPFL Campus: Le Parmentier and the Polydôme Hall (see location on map). Coloured lunch vouchers are distributed to all the registrants, depending on the restaurant: blue vouchers are valid for lunch at Polydôme Hall and yellow vouchers are valid for lunch at restaurant Le Parmentier. Vouchers will be collected on site in the restaurants.

### **Cloakroom**

Participants can leave their belongings in room CO120 (see location on map). Beware, it is a unattended room and participants leave their belongings upon their own responsibility. The organisers cannot be

responsible for any stolen, forgotten, lost or damaged items left on the site. Therefore, we ask you not to not leave any unattended values.

### **Social Events**

An opening reception sponsored by Alstom Power Technology Ltd. will be hosted by the Musée Olympique by the lakeside at Lausanne-Ouchy. Registrants will be welcomed on Sunday, July 1, from 6:00 pm on. Invitation is required and registration facilities are offered.

Tuesday July 2 will be devoted to a special dinner held at the famous Chillon Castle, where Lord Byron was prisonned. A boat will pick up the registered guests at St-Sulpice harbour at 6:00 pm and take them to Montreux where a dinner will be offered at 8:15 pm. An aperitive will be held on the boat, while people can admire the beautiful vineyards along the lakeside. This event is charged 80EUR. Registration can be done at registration desk with credit cards or checks as cash money payments are not accepted.

The closing dinner, which is comprised in the registration fee, will be held on Wednesday July 4, in an astonishing place in the countryside out of Lausanne, La Porte-des-Iris in Vullierens. It is co-sponsored by Siemens Suisse SA and ABB Switzerland SA.

### **Bus Service**

A bus service is provided from Lausanne for the social events. For the schedule, please refer to the information given on site.

Tuesday, July 3, for people coming from Lausanne: meeting for busses at Lausanne-Ouchy, in front of the hotel "Château d'Ouchy", which will take the guests going to the boat trip/Chillon Castle dinner to St-Sulpice harbour. On their way back, from Chillon Castle, participants will be deposited by bus in Lausanne-Ouchy, then downtown.

Tuesday, July 3, for people coming from EPFL: A shuttle will take people from EPFL (Esplanade, see map) to St-Sulpice harbour.

Wednesday, July 4, for people coming from Lausanne: meeting for busses at Lausanne-Ouchy, in front of the hotel "Château d'Ouchy", to pick up the guests going to the Closing dinner to Vullierens. On their way back, from Vullierens, participants will be deposited by bus in Lausanne-Ouchy, then downtown.

### **Companion program**

Registered companions are encouraged and invited to attend the Lausanne PowerTech'07. Aside from the conference social activities, the city of Lausanne offers a wide range of social and cultural, sightseeing and shopping opportunities. The welcome desk hosted by Lausanne Tourist Office will be arranged by the registration desk for all enquiries about excursions and events and registrations.

*Program arranged with the Lausanne Tourist Office:*

Monday July 2: Lausanne City Tour, from 9:00 am to 12:00 am, 46 CHF per person

Tuesday, July 3, Half Day to Gruyères, from 8:45 am to 1:00 pm, 60 CHF per person

Thursday July 5, Excursion to Rochers de Naye, from 9:30 am to 4:30 pm , 128 CHF per person

### **Pictures of the Conference**

Throughout the conference, professional pictures will be taken by a photographer. These will be available for download at the end of the conference through a link posted on the PowerTech'07 conference website.

### **Congress Card**

A free congress card enabling convenient transportation on public transport means in Lausanne from July 1 to 5 will be offered to all the attendees when arrival at registration desk. For public transports to EPFL, please refer to map).

### **Weather**

The climate in July is usually quite warm (sunny daily temperatures ranging from early morning 20°C up to 28°C or beyond at noon). Occasional summer rain may, however, occur.

### **Payment, Currency, Exchange, Credit Cards**

The official currency in Switzerland is Swiss Francs. Exchange facilities are offered to participants at airports, train stations, in hotels and at the exchange desks of banks (open from 8:30 am to 4:30 pm) at the daily indicated rates.

**Please note that no cash money is accepted at the conference registration desk. Visa, Eurocard, Mastercard and American Express are accepted, as well as checks.**

### **Shopping hours**

Most shops are open from 9:00 am to 6:30 pm on weekdays, from 9:00 am to 5:00 pm or 6:00 pm on Saturdays. A fruit and vegetable market along the streets of center Lausanne is held on Wednesday and Saturday mornings.

### **Insurance**

The conference organisation does not assume responsibility for injuries or losses occurring to persons or personal belongings during the conference. Participants are therefore advised to carry proper travel, health, loss and stealing insurance.

### **Tipping**

In restaurants, the tip is usually included in the bill.

### **Electricity Supply**

In Switzerland, electricity supply is 220V, 50Hz. The plugs are different from that are used in USA, UK, Japan, aso.

Map of Olympic Museum (Musée Olympique)



Map of Beaulieu





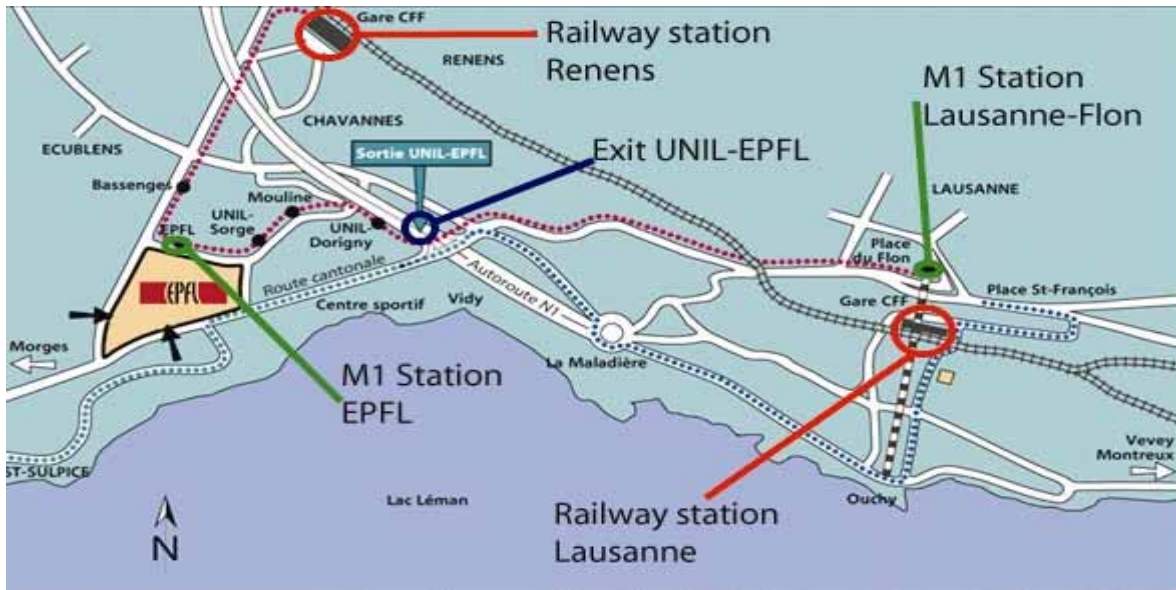
## How to get to EPFL

### From Lausanne Railway Station:

Take the train direction 'Renens'. Exit at station Renens (duration: 4 minutes).  
Take Metro M1 (TSOL) and **exit at station EPFL**.

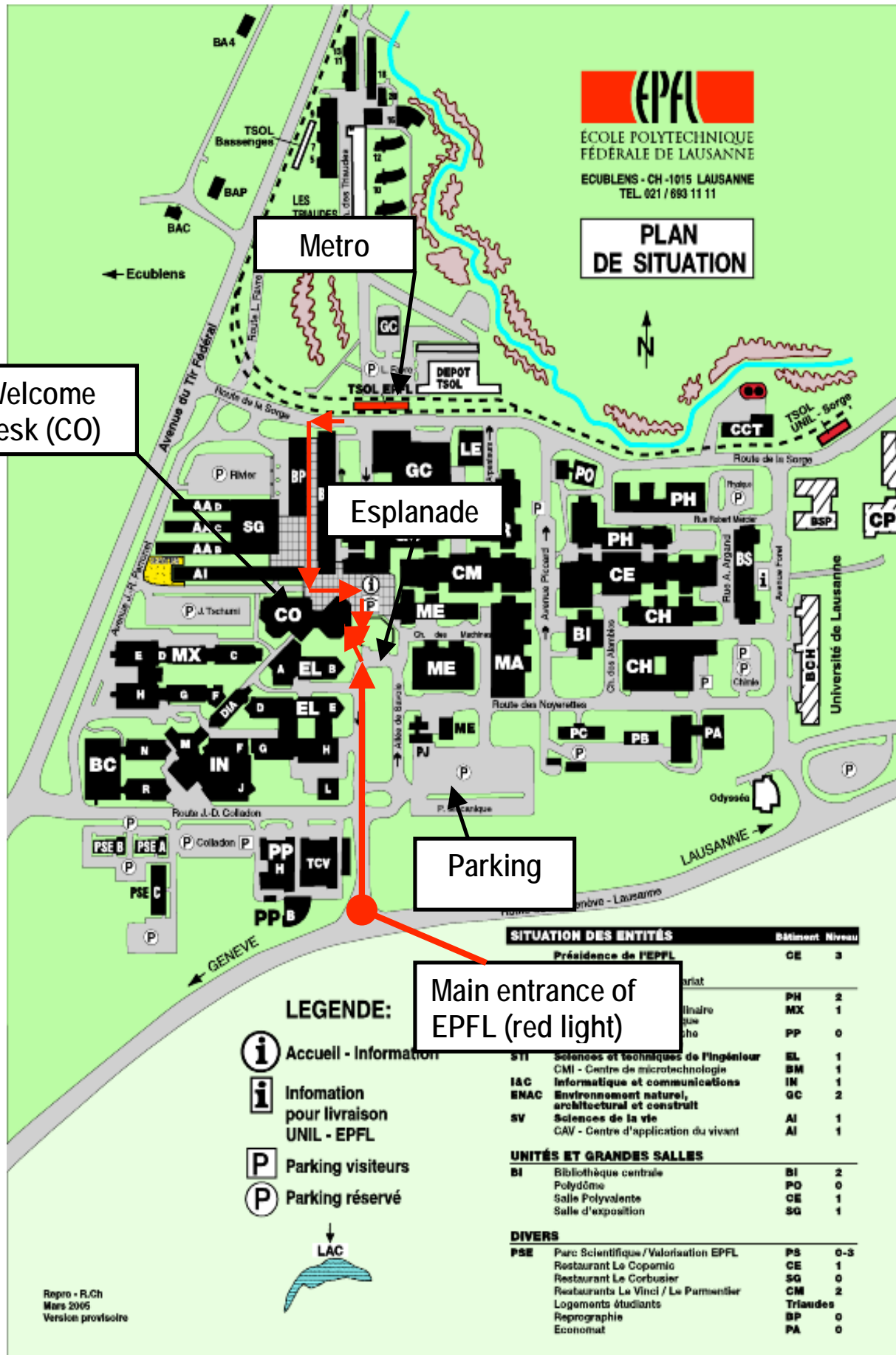
### From Lausanne-Flon M1 Station:

Take the Metro M1 (TSOL) and **exit at station EPFL**.

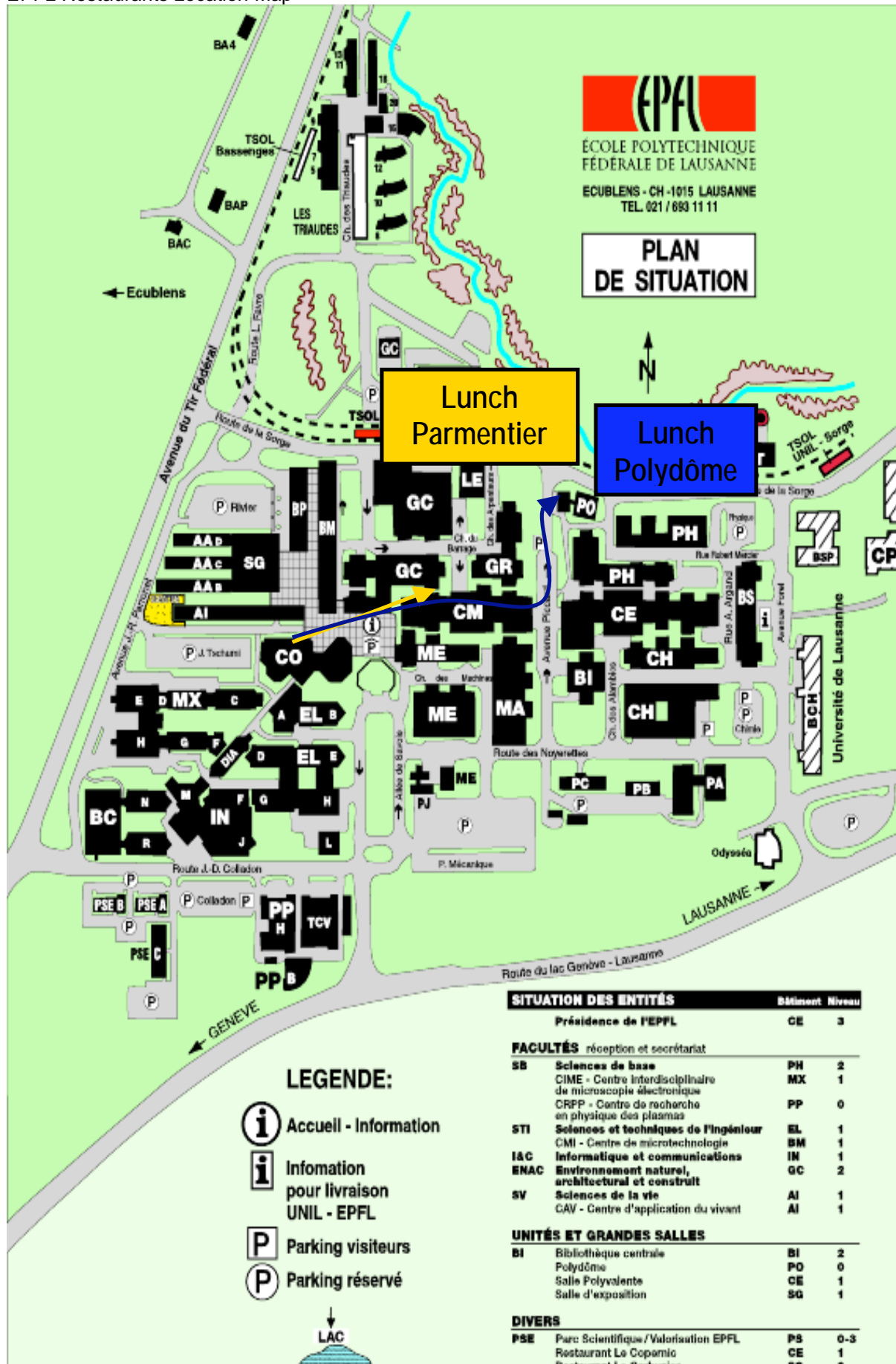


Location of the Conference: CO Building

When you exit at **EPFL** station take the underground passage, then follow the arrows as indicated below until you reach the building **CO**.

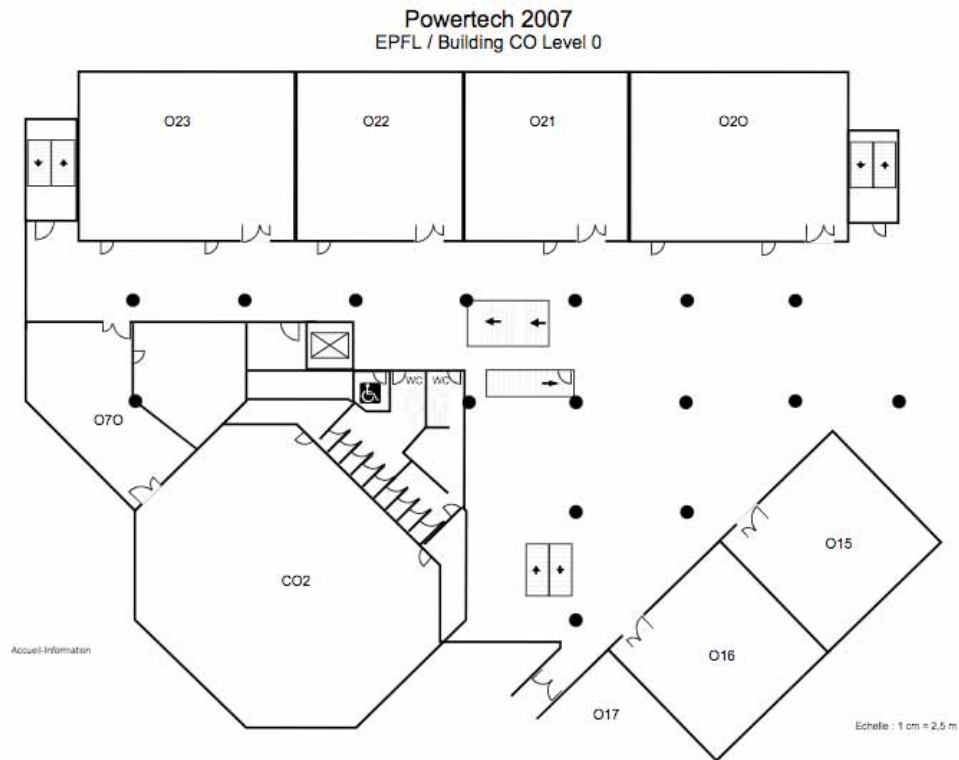


EPFL Restaurants Location Map

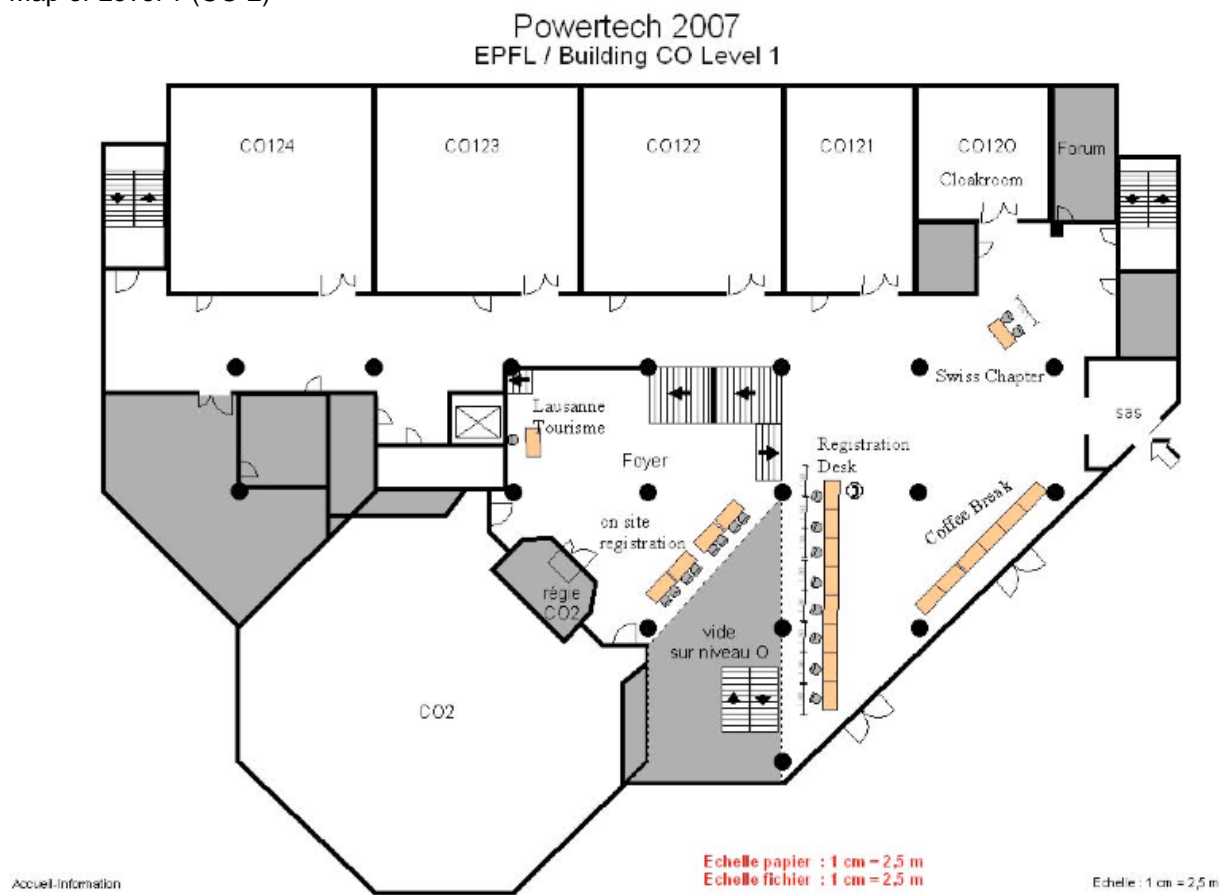


Yellow vouchers are valid for lunch at Restaurant Le Parmentier (marked with yellow).  
Blue vouchers are valid for lunch at Polydôme Hall (marked with blue)

Map of Level 0 (Rooms CO 15, CO 16)



Map of Level 1 (CO 2)



Map of Level 2 (CO1, CO 6, CO 216 and Hall for poster sessions)

