

FAST rebuilding workshop

Fabricated **S**teel houses
in developing regions

September 15-16, 2011
EPFL, Lausanne, Switzerland

Selected Themes

- 1. Stimulating local economies**
Involving the local unskilled workforce
- 2. Meeting basic needs**
Fast and safe rebuilding considering cultural perception of steel
- 3. Adaptable construction**
Ways between affordable transitional shelters and sustainable long-term housing



FREE attendance upon registration at icom@epfl.ch. Registration with submission of an extended abstract (1 to 2 pages) or of a position statement. Submission deadline August 31th. Coffee and lunches provided.

Workshop Sessions, room GC B3 30

Thursday 15/9
11h-12h

Introduction

Issues related to fast and disaster resistant rebuilding in developing regions

Prof. Alain Nussbaumer

13h30-17h

WS1: Stimulating local economies

Discuss means of active participation of survivors in reconstruction process, political issues to fast reconstruction, implementation strategies for local production of steel shelter construction elements

Session Chairs:

Prof. Pedro Vellasco and Dr. Gary Prinz

Friday 16/9

8h30-12h

WS2: Meeting basic needs

Discuss life and livelihood preservation issues after a disaster, social and safety perception of steel in developing regions, fast reconstruction, comfort of steel shelters in hot climates

Session Chairs:

Profs. Alain Nussbaumer and Jan Wium

13h30-16h

WS3: Adaptable construction

Discuss best compromise to meet adaptability, modularity, affordability, efficient material use, lightness, durability, ecology. Reconstruction strategies with possibilities of transition from shelters to permanent housing with one system

Session Chairs:

Profs Edgar Gnansounou and Amit Prashant

16h-17h

Closure

Prof. Jan Wium



Workshop Overview

Natural disasters, conflicts or harsh economic conditions can force people into temporary shelters such as tents or shanties. These situations are intended for short time frames; however, due to prolonged rebuilding times or lasting conflicts, they often function as semi-permanent housing, disrupting normal livelihood.

The aim of this rebuilding workshop is to discuss issues related to affordable, sustainable, and economy-stimulating rebuilding projects that preserve both life and livelihood. Most prefabricated housing systems (tents, sandwich-panel construction, etc.) often use elements that are manufactured abroad, imported to the country in need, and then assembled often by teams of skilled foreign laborers. All the same, earthquake resistant housing needs building expertise. Foreign products and foreign labor, while stimulating to the foreign economies, do little to stimulate local economies. Construction systems using locally fabricated elements, that can be quickly assembled with local unskilled labor and still being disaster resistant are needed and will be discussed in this workshop.

Organizing Committee:

Prof. Edgar Gnansounou

Prof. Alain Nussbaumer

Dr. Gary Prinz

Prof. Amit Prashant

Prof. P. Vellasco

Prof. Jan Wium

FAST rebuilding workshop: FAbricated STeel houses in developing regions

15-16 September 2011, Room GC B3 30, EPFL, Lausanne

How to reach us:

By air and train:

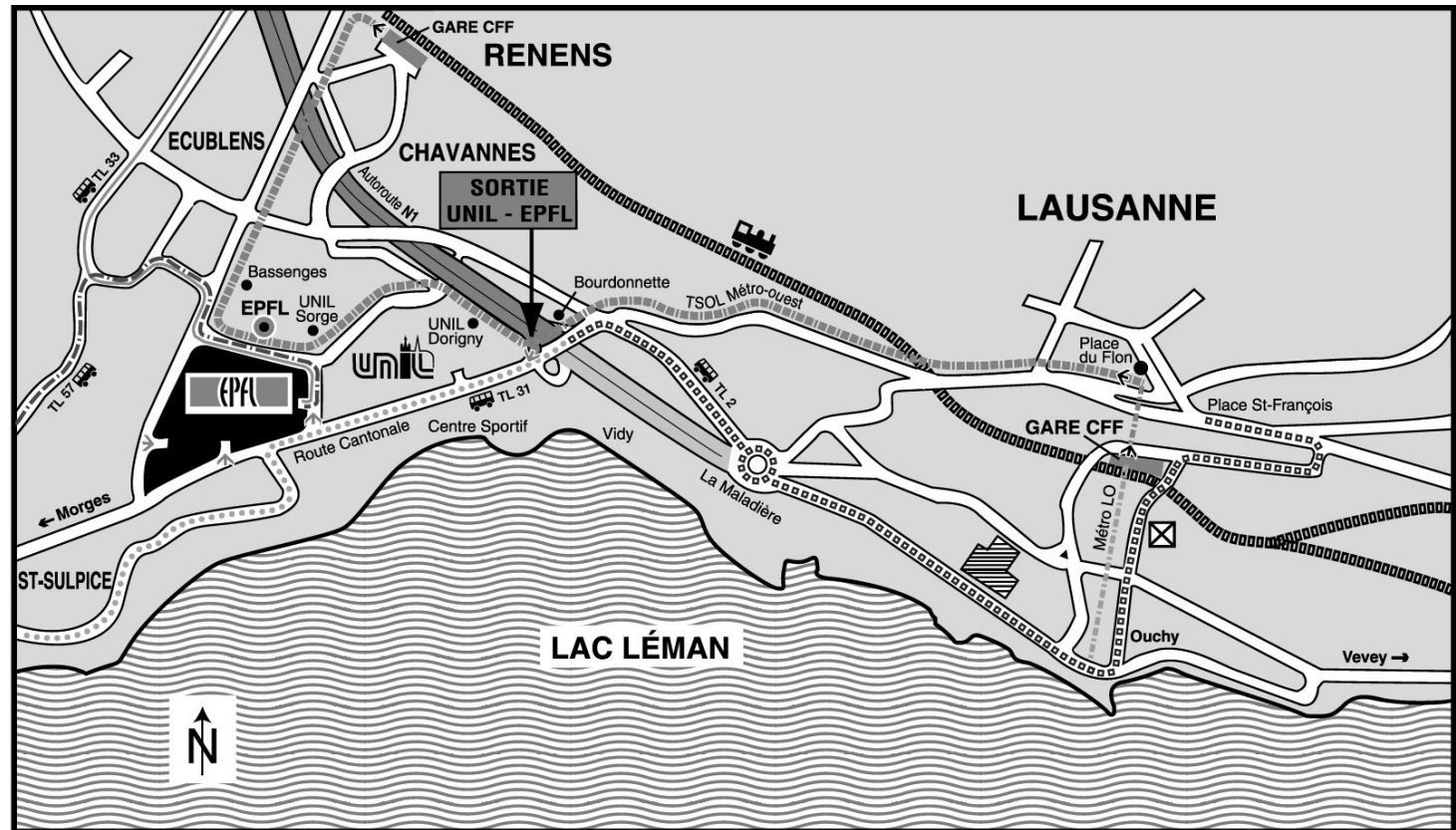
The **airport** is near Geneva, around 50 km from EPFL. The train station is within the airport. There are trains about every 30 minutes and it takes about an hour to EPFL (via Lausanne). You can find the train schedule under: www.cff.ch

From **Lausanne** railway station, take the metro (the metro and train stations are connected, follow the indications), *line 2*, direction *Epalinges*, until *le Flon* (one station). At le Flon, change and take the metro *line 1*, direction *Renens*. It takes about 13 minutes to get to the stop called *EPFL*.

By car:

Take the exit UNIL—EPFL and follow the indications. A public parking is available under the Rolex Learning Center.

Maps of **Lausanne** and of the **campus** are available at: plan.epfl.ch



■ Le site d'Ecublens



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

▨ Le domaine des Cèdres

⊠ Eglise-Anglaise

SB - BI / Repro - R.Ch / Septembre 2001

● Arrêts Métro-Ouest TSOL

▬ Métro-Ouest TSOL

▬ Métro Lausanne-Ouchy (LO)

▬ AUTOROUTE N1
Sortie UNIL-EPFL

□ □ □ □ BUS TL No 2

Bourdonnette - Ouchy - St-François - Désert

● ● ● ● BUS TL No 31

Bourdonnette - St-Sulpice

— BUS TL No 33

EPFL - Ecublens - Renens - Prilly - Mont-Goulin

- - - - BUS TL No 57

EPFL - Prévèrèges - Morges

Workshop organized by the Steel Construction laboratory, ICOM, of the Ecole Polytechnique Fédérale de Lausanne, EPFL