

## 1. Goals of the course.

The goal of the summer course is to instruct participants in the use and good practices of using Pro Engineer for mechanical CAD and Altium for ECAD.

In the TEMPUS CRIST project all partner universities are equipped with a CAD-laboratory for Pro Engineer (13 licenses) and Altium (12 licenses).

We also provided course material to start courses on:

- Mechanical CAD:
  - o Basics: modelling, assembly modelling and drawing.
  - o Advanced modules: sheetmetal, CAM, FEA, surfacing
- Electronic CAD:
  - o Design of schematics and PCB-boards.
- Photogrammetry.

In order to make correct and good use of the course material we provide a summer course of 2 weeks on these subjects.

## 2. Programme.

The preliminary programme of the summer course:

date	day	am	pm
21/08/2010	Saturday		arrival at Brussel Airport and transfer to Mechelen/Campus
22/08/2010	Sunday	free time	free time
23/08/2010	Monday	Administration training ProE: basics	training ProE: basics
24/08/2010	Tuesday	training ProE: basics	training photogrammetry
25/08/2010	Wednesday	bezoek Qinetiqs/Verhaert	study visit Antwerp port and control tower for boat traffic
26/08/2010	Thursday	management: U. Scholtz	management: U. Scholtz
27/08/2010	Friday	training Altium	training Altium
28/08/2010	Saturday	cultural trip to seaside and Bruges	
29/08/2010	Sunday		
30/08/2010	Monday	training Altium	training Altium
31/08/2010	Tuesday	training Altium Advanced/ ProE: FEA	training Altium Advanced/ ProE: configuration
1/09/2010	Wednesday		
2/09/2010	Thursday	study visit ground station Redu	visit to Euro space center
3/09/2010	Friday	official opening satellite ground station: ON 5DNI	
4/09/2010	Saturday	departure from Belgium	training

We planned to have all participants have 2 days of training in ProEngineer basics, and Altium basics. For the participants who are interested in these programmes there is an extra day of training provided on advanced matters.

Two study visits will be made during the summer course:

- A visit to Verhaert Space/Qinetiqs: company who builds satellites (PROBA) and a visit to the VTS (traffic control center of Antwerp port which functions on the same principles and infrastructure as air traffic control).
- A visit to the ESA ground station in Redu and the Euro Space Center (technological exhibition on rocketry and space).

Also a cultural trip is planned for an evening visit to Mechelen.

Participants are expected at De Nayer every day at 9 pm, unless otherwise agreed in classroom.

### 3. Practical matters:

#### 3.2 Accommodation:

Participants are accommodated in two locations:

1. Youth hostel in Mechelen:
  - a. Adress: Zandpoortvest 70, 2800 Mechelen.
  - b. This youth hostel is situated in Mechelen, about 5 km from the campus. Transport to the campus by train.
  - c. Cost is 18 euro/night/person. Double rooms, common sanitary (toilets, showers) in the corridor. No towels provided (should be brought with you). Breakfast included.
  - d. Participants lodged in the youth hostel:

room			
1	Yessengali	Seitzhan	Kazachstan
1	Tolstoy	Ailanysh	Kazachstan
2	Ivanova	Tetiana	Kazachstan
2	Pavlenko	Tetiana	Ukraine
3	Biizhanov	Serik	Kazachstan
3	Nikonova	Tatyana	Kazachstan
4	Oleynikov	Alexey	Russia
4	Afanasiev	Kirill	Russia
5	Fadeenkov	Pavel	Russia
5	Kornilin	Dmitriy	Russia
6	Karnaushenko	Roman	Ukraine
6	Stepurenko	Dmytro	Ukraine

2. Student dormitory De Nayer
  - a. Adress: J. De Nayerlaan 7, 2860 Sint Katelijne Waver, Belgium.
  - b. This hostel is situated on the campus.
  - c. Cost is: 120 euro for the complete stay. Individual rooms, common sanitary (toilets, showers) in the corridor. Common use of kitchen. No towels provided (should be brought with you). No breakfast included.
  - d. Participants lodged in the dormitory:

Shynkarenko	Olexiy	Ukraine
Astakhov	Dmytro	Ukraine
Grosheliev	Dmytro	Ukraine

Vertyagina	Yelena	Kazachstan
Shepetov	Iurii	Ukraine
Zhetessova	Gulnara	Kazachstan
Polyvyanaya	Natalia	Russia
Goryashin	Nikolay	Russia
Sorokin	Dmitry	Russia
Pasechnik	Kirill	Russia
Verkholaz	Lena	Ukraine

### **3.2 Transport by public transport train and bus:**

As the campus is situated next to the train station (Sint Katelijne Waver), train is the obvious means of transport to and from the campus. The train station is on the line from Brussels to Antwerp.

Train tickets can be bought at the ticket office in the train station (of Mechelen Neckerspoel), or on the train in Sint Katelijne Waver.

A train ride from Mechelen to Sint Katelijne Waver costs 1.70 euro if you use a key card, a card with 10 individual train rides on it. With this kind of ticket you can go from Sint Katelijne Waver to Mechelen, and to Antwerp.

On working days:

Train run 2 times every hour from Mechelen (Neckerspoel) to Sint Katelijne Waver: at xx.01 h and xx.29 h.

Train run 2 times every hour from Sint Katelijne Waver to Mechelen (Neckerspoel): at xx.25 h and 00.54 h.

Bus:

Through the street in front of the campus runs a local bus to go to the village centre (2km).

Tickets can be bought on the bus, or you use a bus card which can be bought in newspaper shops.

### **3.3 Doctors in medicine:**

- a. Dr. Van Engeland, Wilsonstraat 14, , Sint Katelijne Waver, 0032(0)15311325
- b. Dr. Ceulemans, Voorland 1, Sint Katelijne Waver, 0032(0)15315666
- c. Dr. Van Soom, Stationsstraat 176, , Sint Katelijne Waver, 0032(0)15316307
- d. Apotheek (drugstore): Apotheeker Nagels, Markt 31a, Sint Katelijne Waver, 0032(0)15311560

### **3.4 Tourist info:**

Belgium is known for its beer (400 brands) and chocolates.

Traditional food included: mussels (seafood) with French fries, “stoofvlees” with fries (some kind of goulash), “konijn met pruimen” (rabbit with prunes), “forrel” (some kind of fresh water fish), “bloemkool met worst” (coli flower with sausages), “Gentse waterzooi” (soup with chicken and vegetables).

Belgium was conquered many times in history, and all conquerors left some archaeological heritage. Some of the prettiest cities nearby are marked here:

[www.mechelen.be](http://www.mechelen.be) (6 km)

[www.antwerpen.be](http://www.antwerpen.be) (20 km)

[www.lier.be](http://www.lier.be) (12 km)

[www.brussel.be](http://www.brussel.be) (30 km)

Be sure to visit Bruges and the seaside too.

### **3.5 Other practical matters:**

- Currency: euro (1 euro = 1.25 US\$), divided in 100 eurocent
- Some standard prices:
  - o 1 bread (800gr) = 2.00 euro
  - o 1 litre of milk = 0.90 euro
  - o Hot meal at university = 4 euro.
  - o A beer in the pub: 1.70 euro
- Telephone number of police: 101
- You are obliged to always carry your passport.
- Carrying weapons (knives included!) is forbidden in Belgium.
- If you are really lost, contact Peter Arras

### **3.6 Food**

#### 3.6.1 Breakfast:

In the youth hostel in Mechelen breakfast is included.

Participants accommodated in the student dormitory should look for their own breakfast. Shops are marked on the little maps further on. Only for Sunday 22/8 and Monday 23/8 a breakfast will be provided.

#### 3.6.2 Lunch:

Lunch can be taken at university during working days (Monday to Friday) . For Monday 23 August lunch have been ordered for all participants.

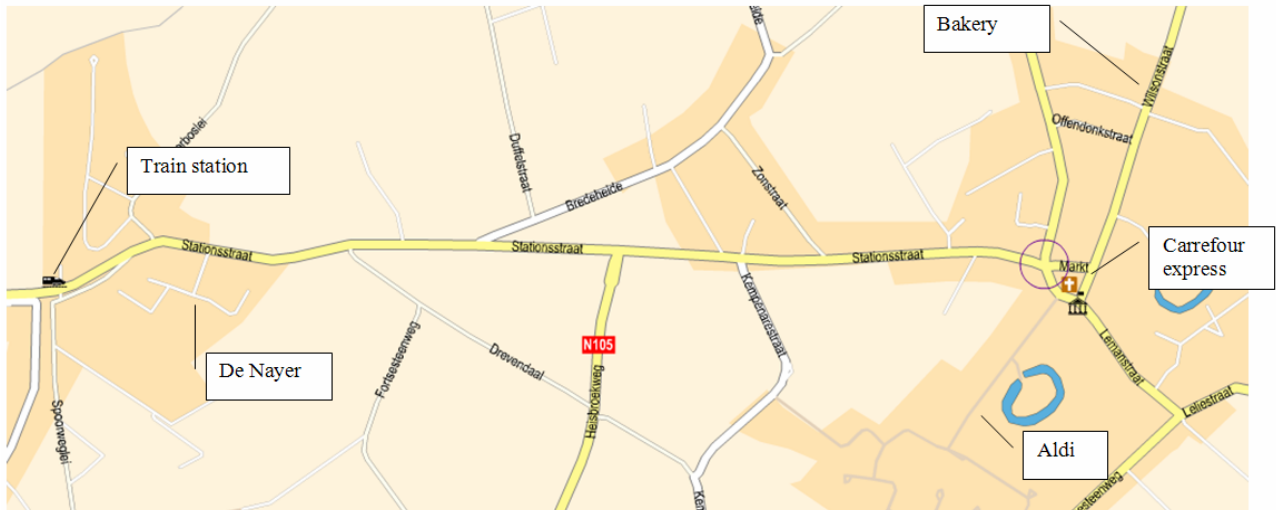
#### 3.6.3 Diner:

Participants can shop, or go to a snack bar or a restaurant in Mechelen. (Near the campus, at the exit of the parking lot, 150 m to the left is a snack bar, at the exit of the parking lot are some automates where you can get some food too.)

#### 3.6.4 Shops in Sint Katelijne Waver:

When going to the shops, be sure to take a bag or rug sack, since bags are to be paid for in Belgium. When at the shop, you can hire a shopping cart: put in a coin, and after returning the cart, you get your money back.

- i. ALDI: discount shop for food
- ii. Carrefour express: general store



## 4. Study visits.

Two study visits have been planned and are compulsory for all participants.

Transport on these days is provided with a bus: costs for transport will be collected on the bus.

- A visit to Verhaert Space/Qinetiqs: company who builds satellites (PROBA) and a visit to the VTS (traffic control center of Antwerp port which functions on the same principles and infrastructure as air traffic control).
- A visit to the ESA ground station in Redu and the Euro Space Center (technological exhibition on rocketry and space).
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Other visits will be arranged after arrival.

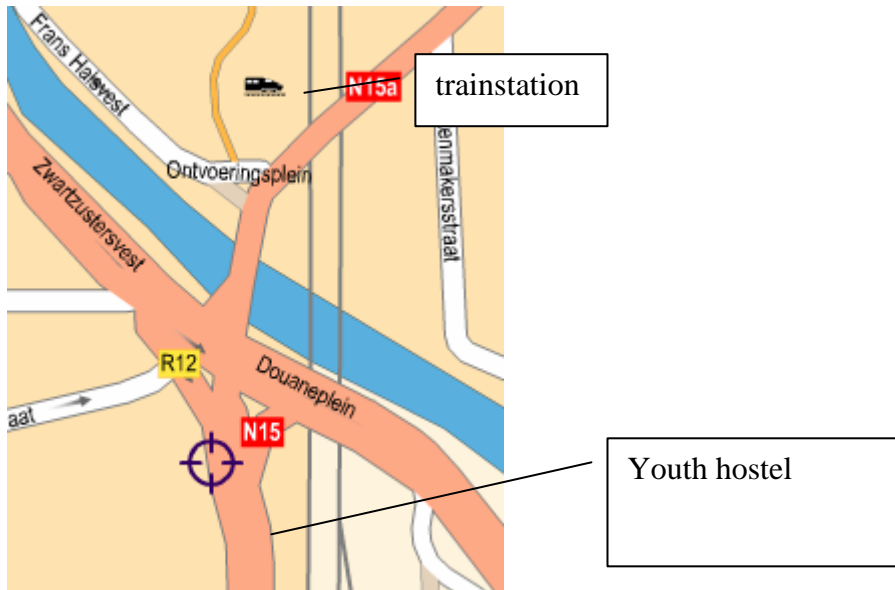
## 5. Arrival in Belgium.

After arrival in Belgium, participants have to travel individually to their accommodation. This can easily be done by train.

Take a train in Brussels National Airport to Brussels Nord train station, and then further on train to Mechelen Neckerspoel or Sint Katelijne Waver.

Be sure to have a look at the yellow timetables in the train station of Brussels Nord: be sure to take a train direction of Antwerp who will stop in the appropriate train station. Not all train which stop in Mechelen Neckerspoel will also stop in Sint Katelijne Waver.

Youth hostel in Mechelen: (train stop Mechelen Neckerspoel)  
(500 m to youth hostel on Zandpoortvest 70)



## 6. Grants and daily rates.

As provided in the Tempus Crist project, all participants will receive some money to cover expenses.

These grants will be paid at De Nayer on Monday 23 August.

As accommodation has to be paid before hand, the costs for the accommodation (see accommodation) will automatically be deducted from the grant, before it will be transferred to the participant.

## 7. Contact information:

Contact:

ing. Peter Arras

International Relations Officer

[peter.arras@denayer.wenk.be](mailto:peter.arras@denayer.wenk.be)

Mobile: +32 (0)486 528 196

ing. Dirk Van Merode

[dirk.vanmerode@denayer.wenk.be](mailto:dirk.vanmerode@denayer.wenk.be)

Mobile: +32 (0)496 268 415

ing. Chris Peeters

[Chris.peeters@denayer.wenk.be](mailto:Chris.peeters@denayer.wenk.be)

Mobile: +32 (0)493 149 470

Hogeschool voor Wetenschap & Kunst - campus DE NAYER  
Jan De Nayerlaan 5- BE-2860 Sint-Katelijne-Waver - BELGIUM

Tel. +32 (0)15 31 69 44

Fax +32 (0)15 31 74 53

<http://www.lessius.eu>