

UFAFABRIK  
SYMPOSIUM  
12. MAY 2015

LEONARDO  
DA VINCI  
PARTNERSHIP  
AUGUST 2013 -  
JULY 2015

# WOOD

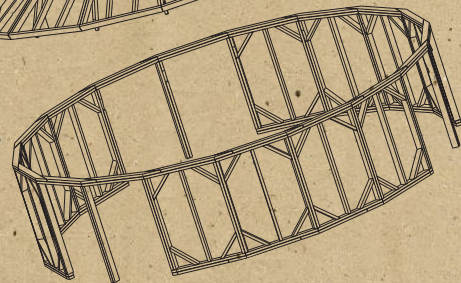
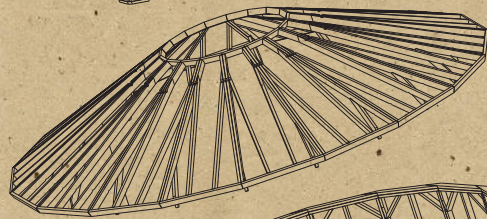
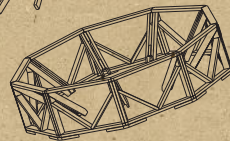
## CONSTRUCTIONS

## AND ENERGY

## EFFICIENCY

## IN VOCATIONAL

## TRAINING



# Welcome to ufaFabrik Berlin

For decades, dreams were recorded on celluloid on the grounds of the Universal Film Studios in Berlin-Tempelhof. The second life as the „ufaFabrik“ began in 1979 when a group of young activists and artists moved in and built a unique centre for arts, culture and sustainability.

New and uncommon ideas have been explored and implemented here since 1979 and most projects involve issues of ecology and sustainable development.

Today with 30 residents and over 200 co-workers based in ufaFabrik, services and programmes include children's circus, café and summer garden, organic bakery and natural food store, guesthouse and residencies, children's school and farm, and a neighbourhood centre. UfaFabrik's International Cultural Centre is supporting contemporary arts and culture, it houses two theatre spaces, multiple practice studios, workspaces, and an outdoor covered stage in summer. The team of the ufaFabrik aims to inspire and empower the public to participate in cultural practices and social interaction

During the first years the eco-pioneers were often seen as friendly dreamers and people smiled about the funny experiments they tried. This has changed: More and more people see the urgent need for sustainable concepts in all areas of the European and global society.

The ufaFabrik has become a research and experimental site for ecological technologies and constructions. Guests and students from all around the world attend courses, workshops and conferences to learn about photovoltaic and other renewable energy sources, rainwater use, green roofs, ecological refurbishment or clay, straw bale building, and sustainable urban development in universities.

In 2004 ufaFabrik was classified by the United Nations settlements program UN-habitat as a "Best practice for the improvement of the living environment." Today, in its 36th year of existence the ufaFabrik is still in a constant process of renewing and improving their concept towards a sustainable future.

[www.ufafabrik.de](http://www.ufafabrik.de)

## Wood Construction and Energy Efficiency in Vocationnal Training

From August 2013 since July 2015 four Vocational Training Centres from Denmark, Germany, Portugal and Spain responsible for the instruction of young woodworkers explored selected wood constructions and their qualities regarding the energetic effects in buildings.

The participation of students and partners from northern and southern European countries allowed to analyse various insulation and refrigeration technique in a practical way. In cold climates, the participants focussed their activities in the combination of wood constructions and different insulation materials to reduce the heating consumption. In warm climates, the activities of the students addressed the use of wood constructions and plants like green roofs and green facades, for refrigeration and climate control inside and outside of the buildings.

All partners will join the final Symposium in the ufaFabrik Berlin and will present their outcomes and conclusions. The one-day event will give visitors the chance to meet colleagues from different European Countries, explore best practice examples of constructions, get informations about bioconstruction and more. It is a good opportunity to network Europe-wide in these themes.



The two years Partnership Project was coordinated by ufaFabrik Berlin.

More information :  
[www.woodergy.wordpress.com](http://www.woodergy.wordpress.com)

**Maria Garcia Gomez :**

conception, coordination and documentation of the meetings.

**Werner Wiartalla :**

conception, technical support, ecological and physically aspects of the project.

## Symposium / Grand Theatre

12 May 2015

9:00	Gathering at the Open Air Space and Gallery	
9:30	Welcome and Opening	Werner Wiartalla
	Short Introduction of the program Leonardo da Vinci	Michael Schillhaneck
	Introduction of the WCEEVT	Maria Garcia Gomez
10:00	Introduction of the Partner Schools:	
	Knobelsdorffschule Berlin : Wood construction and Insulation materials	
	TRADIUM Randers Denmark : Wood construction and Insulation materials	
	CFPIMM Lordelo Portugal : Cooling systems with Plants	
	IES Melide Galicia : Container, green roofs, green facades	
11:15	Coffee Break	
11:30	Short lectures	
	Energy Efficiency and Climatisation with Plants	Werner Wiartalla
	Sustainable forestry, wood protection	NN
	Constructions by natural materials	NN
	Solardecathlon Paris, Pilot construction	TU Berlin Students
	Measurement and Monitoring	Marco Schmidt
	Bioconstruction in Galicia	Juan Bello
13:30	Lunch	
15:00	Producer's lectures : Wood protection, construction and insulation materials, green roofs.	Seminar room
18:00	Ausklang and finger food	

## Outdoor Exhibition / Summer Stage

9-18:00

TRADIUM Dänemark	Modell Corner, mussels, seaweed
Knobelsdorffschule Berlin	Pilohouse, Insulation material, Straw bails, Paper recycling
Lordelo, Portugal	Poster presentation
IES Melide, Galizien	Poster presentation
ufaFabrik Berlin	Models of Green roofs, Facade greening

## Guided tour / Exhibition

14:30

## Outdoor Parallel Workshops

10-12:00 // 14-16:00

D I	Straw bail building	ufafabrik
D II	Clay plastering	Lehmwerk

## Outdoor Presentations

10-12:00 // 14-16:00

D I	Wood construction	OSZ Knobelsdorff Schule
D II	Insulation materials	OSZ Knobelsdorff Schule

## Guided tour / ufaFabrik

16:00

Sociocultural aspects	Sigrid Niemer
Ecology	Werner Wiartalla



# CFPIMM

## Lordelo, Portugal



**CFPIMM** was created by the Institute of Employment and Vocational Training-IEFP, and the Association of Portuguese Wood and Furniture Industries- AIMMP.

The activity is divided in two major strands: Initial and Continuous Training. Within Initial Training, CFPIMM gives importance to qualifying training, offering courses with three years duration and with equivalence to secondary school, and also training courses of one year duration for young and adults.

CFPIMM has permanent interaction with companies throughout the period of Initial Training, by the organisation of visits and the existence of a Practical Training component, taking place in those industries. The Continuous Training, having the purpose to support the industrial development through training and constant modernisation of employees, gives relevance to new technologies, methods and management systems.

Being the sole institution, with national coverage, responsible for recognition of qualifications in the wood and furniture sector, with long experience in preparation of training offer of the sector, it is able to give valuable inputs for the development of this project.

### Role in the Project (Resumé):

- Responsibility for developing the subject of Cooling systems with plants: green façades, shared with Spanish partner.
- Act as a host in a project meeting and present the results of its work.

CFPIMM has invited two Portuguese institutions to participate in the Project: Lenhotec, a company for wood industries consulting, and CICCOPN, a Vocational Centre of Construction.



# IES

## Melide, Galizien

**M**elide is a little town in the centre of Galicia, North West of Spain, known worldwide due to the Route of Santiago de Compostela.

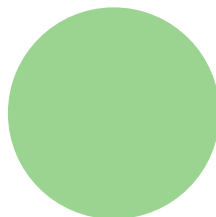
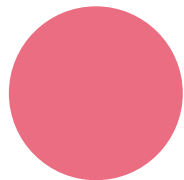
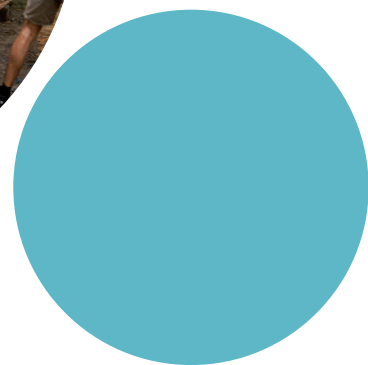
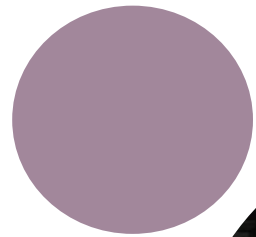
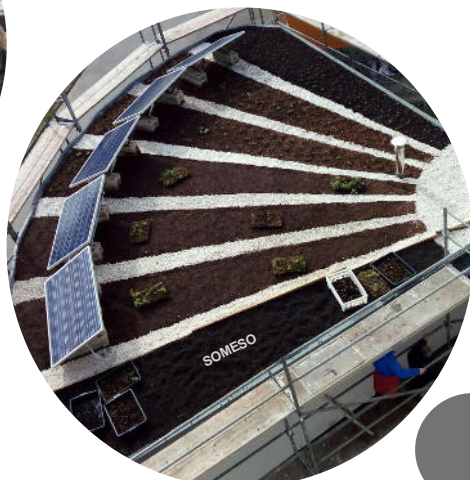
The Secondary Education School of Melide provides compulsory secondary education, Professional training, Education for Adult People and Teaching of English as a Foreign Language.

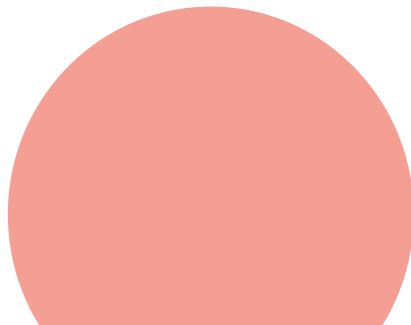
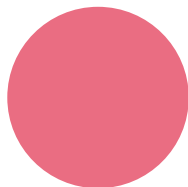
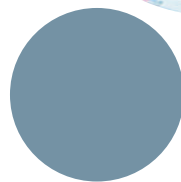
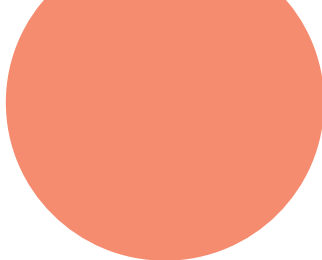
Regarding Vocational Training, the school offers studies of carpentry, which involves teaching about ICT tools, the latest technologies, the analysis of quality management and ecological procedures.

As part of the Leonardo Project, we have set up an old shipping container so as to use it as a wood store. We have applied concepts such as: wood construction and wood protection, green roofs, cooling systems with vegetation, ecological isolation, sustainability and recycling.











# Tradium Randers

## Dänemark

**T**radium is a large educational institution in Denmark specialized in technical and business studies. They have approximately 550 employees and almost 4000 equivalent students a year.

Tradium offers a wide range of different vocational programmes, clustered in six different areas:

- Motor vehicle, aircraft and other means of transportation
- Building and Construction
- Body and Style
- Production and Development
- Electricity, Controlling and Computer Technology
- Transport and Logistics

In addition to this Tradium also offers upper-secondary education (technical and commercial) and adult education at all levels.

Tradium has been involved in different kinds of EU-projects during the last couple of years regarding the topics of energy efficiency and sustainable building. The organization is also quite familiar with mobility projects.

In this Partnership, Tradium works on the themes "Wood constructions in combination with different insulation materials". Tradium also acts as host in project meetings (mobilities) and collaborates in the dissemination of results.





# Knobelsdorffschule Berlin, Germany

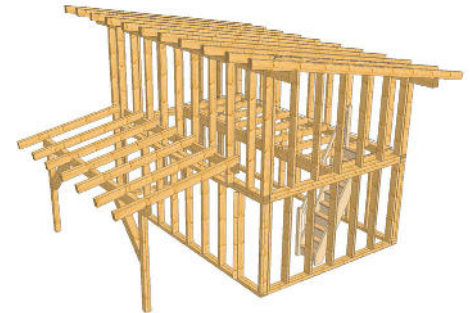
**K**nobelsdorff-Schule is one of the schools for vocational education and training in building and construction in Berlin with different educational backgrounds:

- Prevocational training.
- Vocational training in building and construction (both theoretical and practical training).
- Production School - with around 500 apprentices in seven professions. The apprentices have a contract with Knobelsdorff-Schule. Practical training is held at the workshops and at construction sites of the school.
- Technical college.
- Secondary school with general qualification for university entry.

Knobelsdorff-Schule was founded in 1986 by pooling three vocational schools for construction in former West Berlin.

The role in the project is to be project coordinator and the place to carry out project meetings and vocational training in relation to project contents.

In three of our educational background sections we are also teaching and training students and apprentices with social risks like f. e. social exclusion and other impacts.



# ufaFabrik

## Sustainable projects and collaborations

The cooperation between the ufaFabrik and educational institutions like universities, vocational training centres and enterprises aims to spread sustainable alternatives into the society. The last projects focused to the reinforcement of sustainable and efficient building techniques in the vocational training and the higher education:

- Symposium „Straw in the city“ (2010), with lectures, workshops and a small exhibition about straw bale building.
- Leonardo da Vinci – VETPRO Mobility (2010/2011): Training about sustainable urban development for Galician teachers of the building sector.
- Energieseminar: Planet Straw (2011): Self-organised construction of a straw bale house with students of the Technical University Berlin and craftsmen of the Knobelsdorff Schule.
- Leonardo da Vinci – Mobility VETPRO (2011-2012): Advanced training for teachers about straw bale building. A small house following bioclimatic principles was built for didactic purposes in cooperation with the German Knobelsdorff Schule and FP Someso and other institutions from Spain, Germany and Latvia.
- Applied innovation in the vocational training (Spain 2011/2012): Reinforcement of building biology and energy efficiency (Passivhaus standard) in the Spanish vocational training. [www.fpconstruccionsostenible.org](http://www.fpconstruccionsostenible.org)



## SILENT PARTNERS

With many thanks to the partners, who supported from the background to enable exchanges, technical excursions and hospitality in their countries



## FOUNDED BY



## REALISED BY PARTICIPANTS



## SPONSORED BY





# ufaFabrik Berlin

Centre for arts, culture, participation and sustainability



- |                      |                           |
|----------------------|---------------------------|
| 1 Main entrance      | 17 Studio 2 - Jazz school |
| 2 Info + tickets     | 18 Acrobatics hall        |
| 3 Natural food store | 19 Studio 1               |
| 4 Guest house        | 20 Dance studio 2         |
| 5 Free school        | 21 Wolfgang Neuss Salon   |
| 6 Playground         | 22 Varieté Salon          |
| 7 Children's farm    | 23 Family services        |
| 8 Café Olé           | 24 Neighbourhood centre   |
| 9 Seminar room 1     | 25 Organic bakery         |
| 10 Grand theatre     | 26 Wood oven bakery       |
| 11 Theatre foyer     | 27 Seminar room 2         |
| 12 Atelier 1 + 2     | 28 Recycling court        |
| 13 Summer stage      | 29 Water filtration       |
| 14 Dance studio 1    | 30 Rainwater cistern      |
| 15 Percussion room   | 31 Wind turbines          |
| 16 Dojo              | 32 Straw bale house       |

