



**INTERNATIONAL HEMP BUILDING ASSOCIATION**

# The International Hemp Building Association

The origins and aims of the I.H.B.A.  
by Steve Allin, director

Intro Partners Presentation  
NEES project  
Cork June 7th=8<sup>th</sup> 2011



Hosted by

hempbuilding.com

&

HEMPCRETE NATURAL BUILDING



# 1st International Hemp Building Symposium 16-18 September 2009 Kenmare, Co Kerry, Ireland



73 people attended  
from 17 nations





# INTERNATIONAL HEMP BUILDING ASSOCIATION

## **INTERNATIONAL HEMP BUILDING ASSOCIATION MISSION STATEMENT**

The aims of this association are; To develop, promote and support the production and use of all hemp based construction materials and their by-products in a sustainable and bio-regional manner for the benefit of the ecology and communities of all regions of the world.

# Hemp materials

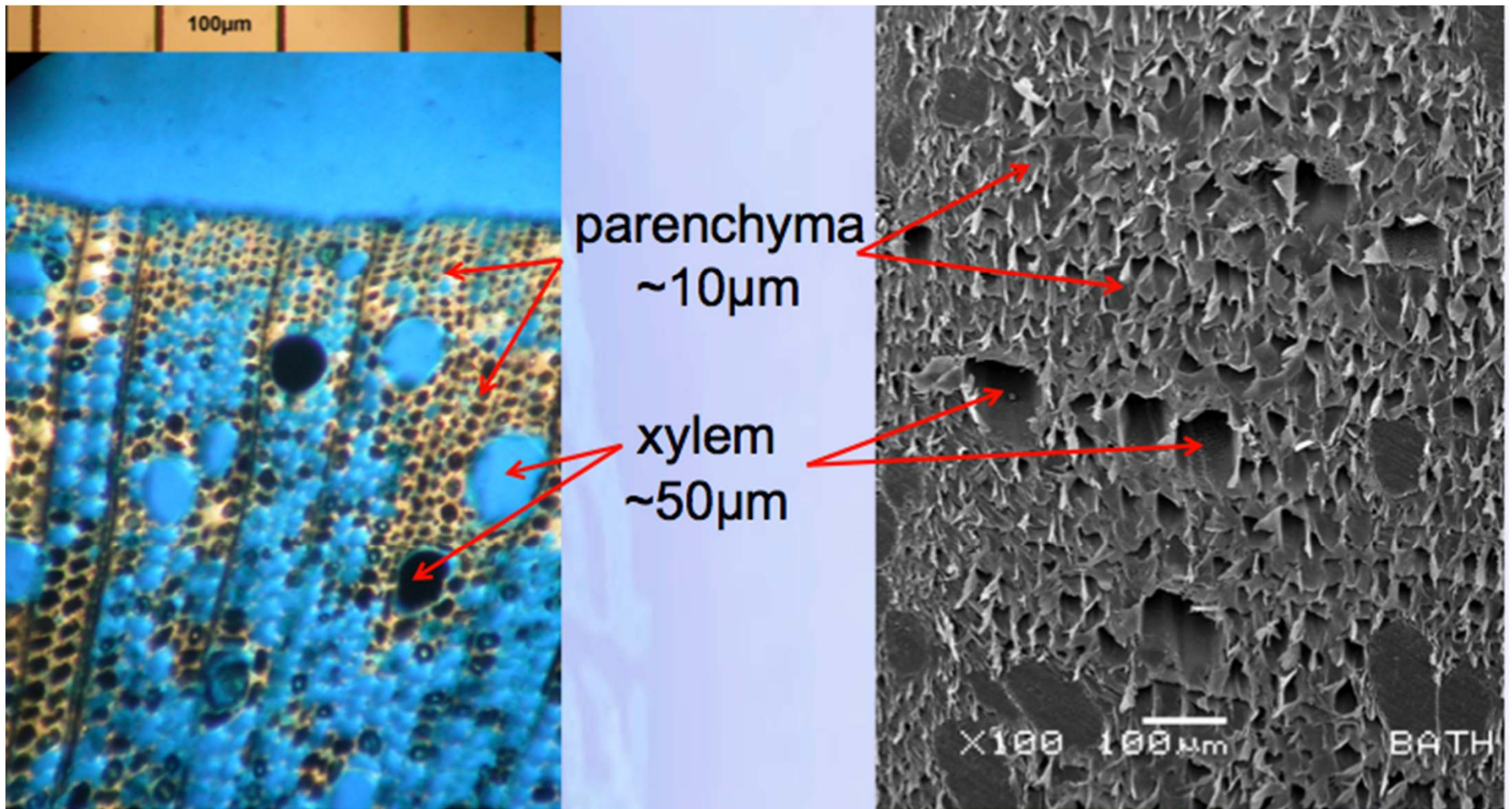


# Hurds

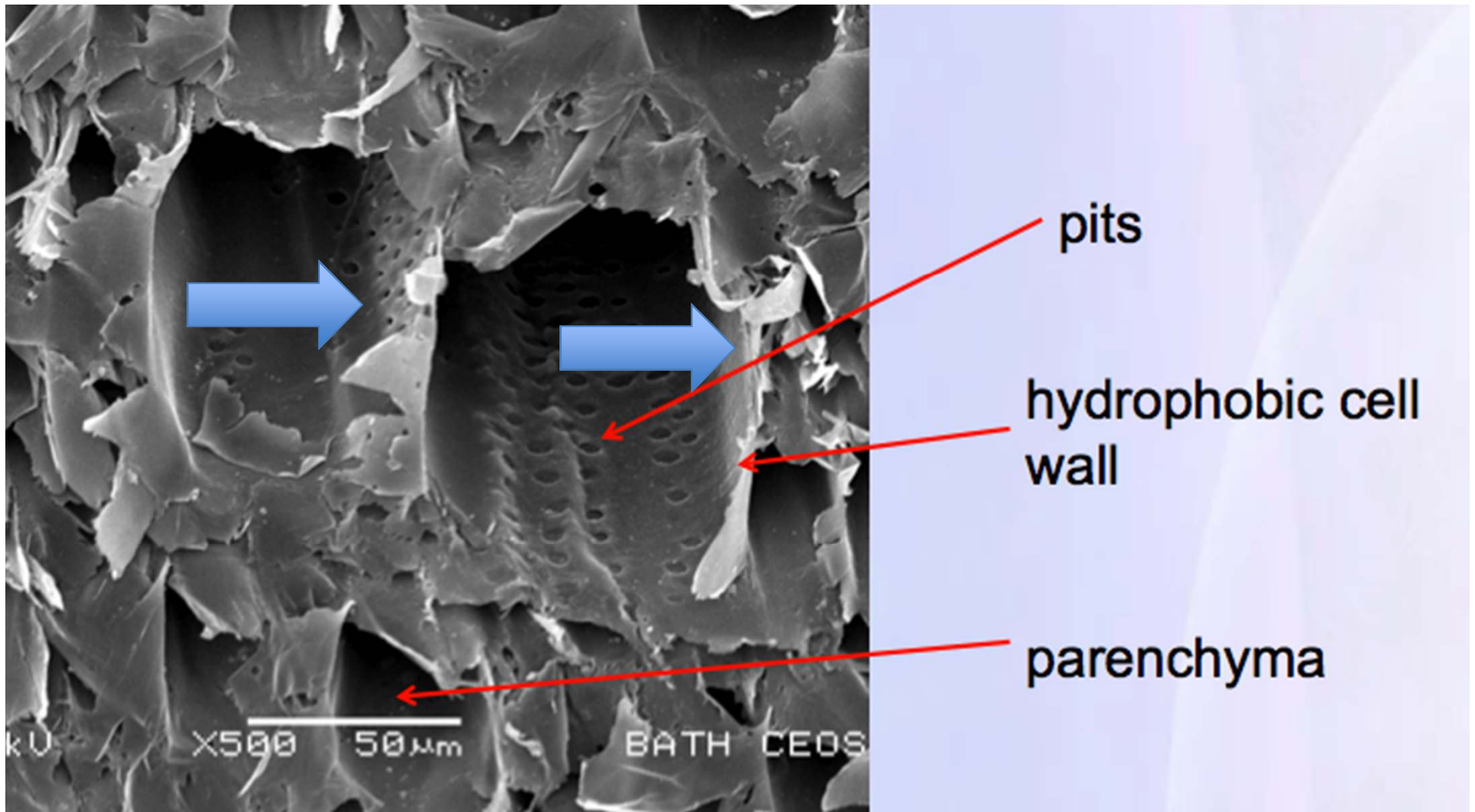




# Cell structure



# Latent Heat





# Binders



Limestone



# Binders



Cement clinker



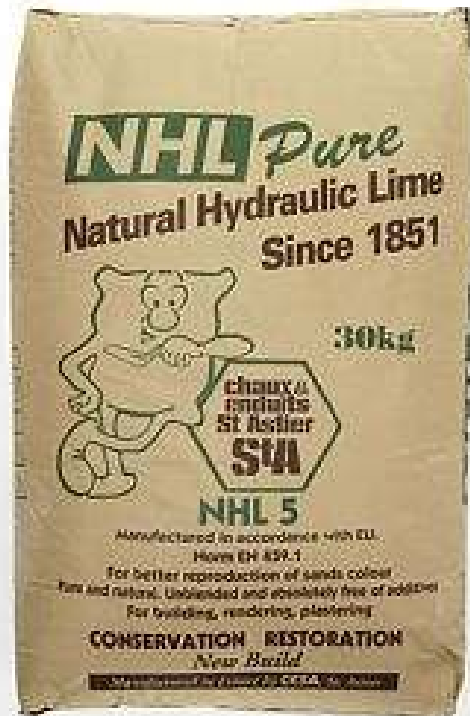
Natural Cement



Clay



Gypsum



Natural Hydraulic Lime



Pozzolanic ash

# What do we mean by “Hemp-building”?

Firstly there can be a floor made of Hempcrete

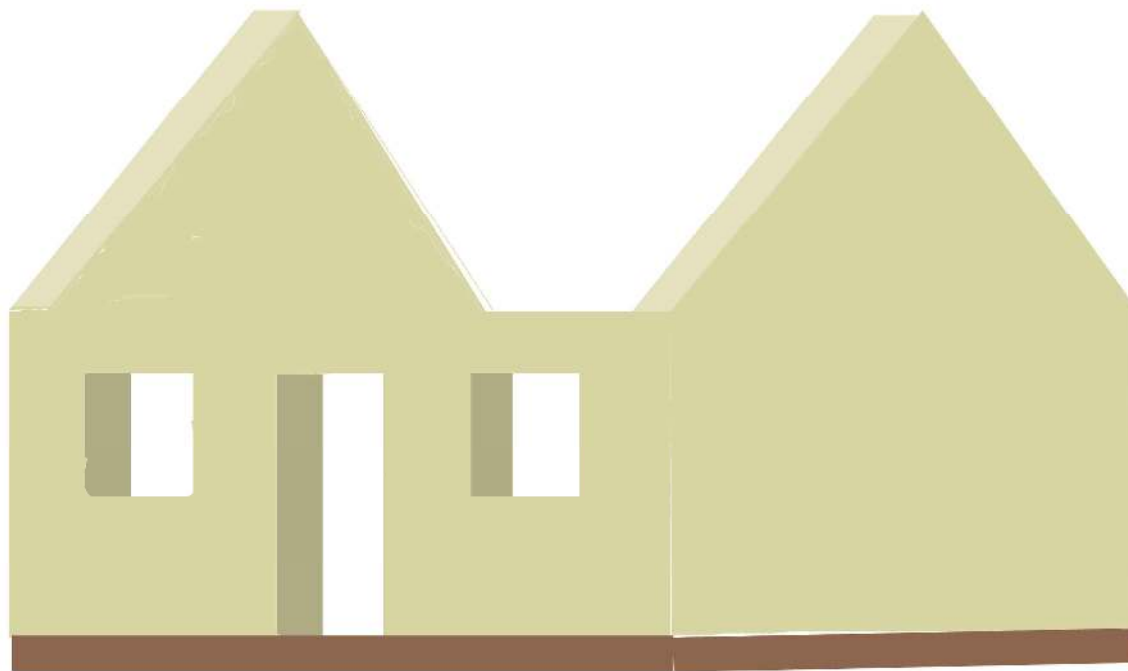




This surrounded by a foundation

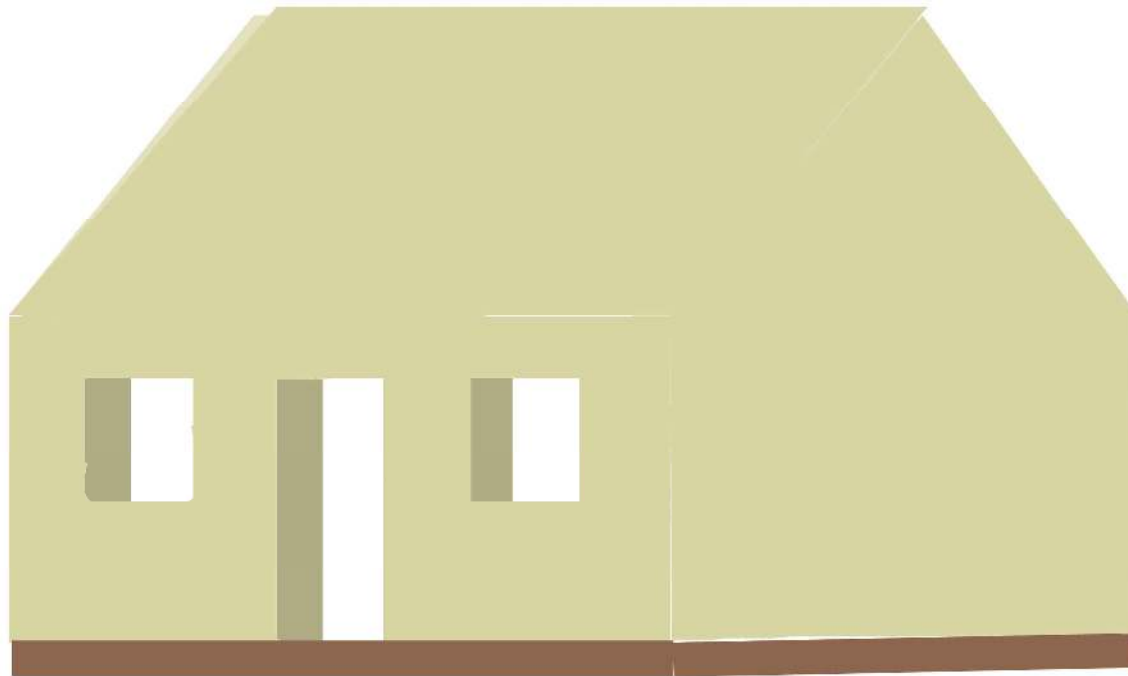


Walls are cast with Hempcrete





This Hempcrete envelope can be extended across the roof

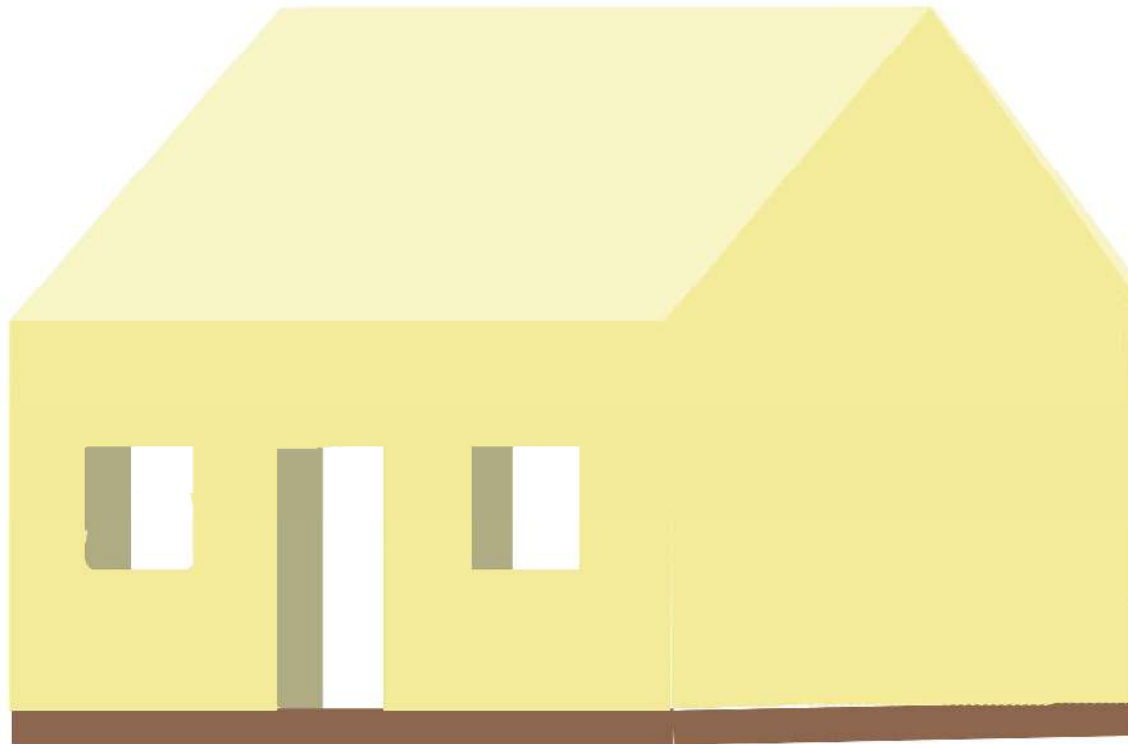


The roof can be additionally or alternatively insulated with Hemp fibre

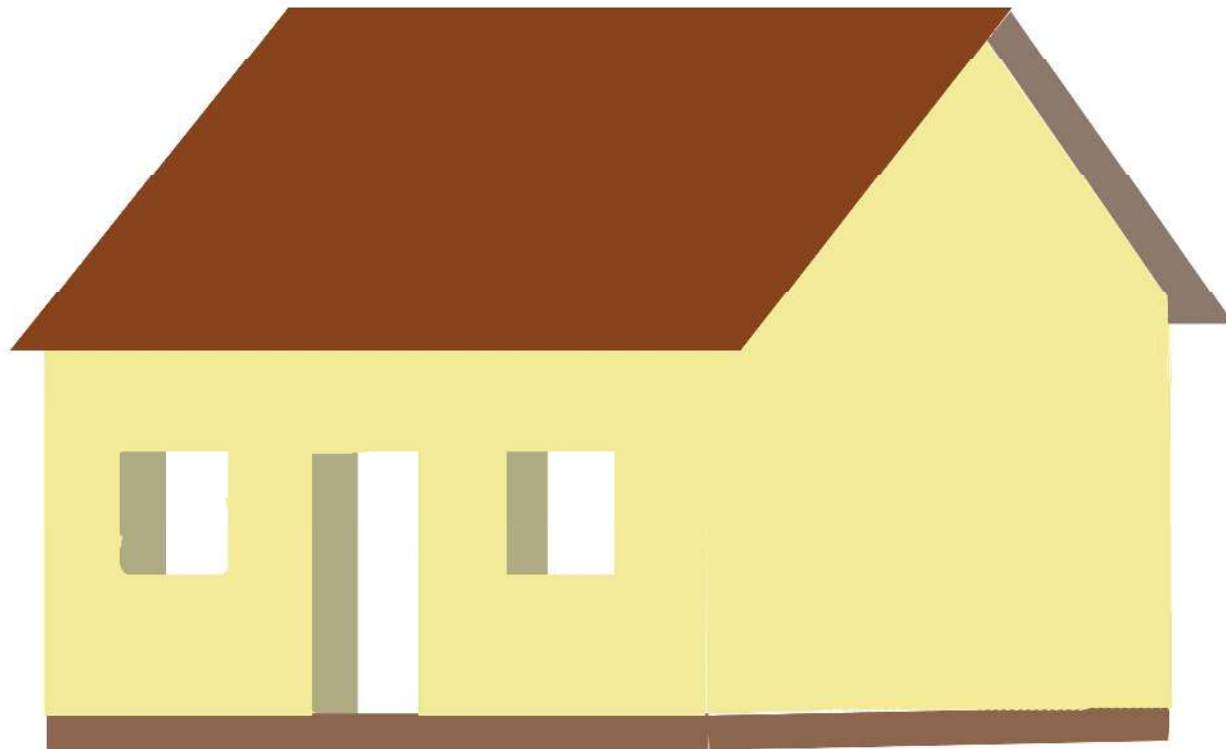




Externally the structure is made weatherproof by covering with plaster or boards



The roof is of whatever is appropriate locally



# Hemp/lime, Hemp/clay or just Hemp





Hemp building has relevance in all regions of the world and at every scale



# Methods of Application

- Manual Casting





# Methods of Application

- Manual Casting





# Technique



# Sprayed Hempcrete





# Sprayed Hempcrete





# 1st project



# System building





# Industrial scale

Brewery warehouse  
Hemp block with  
Hempcrete infill





# Industrial scale

Steel Frame with  
Timber panels filled with  
Sprayed Hempcrete

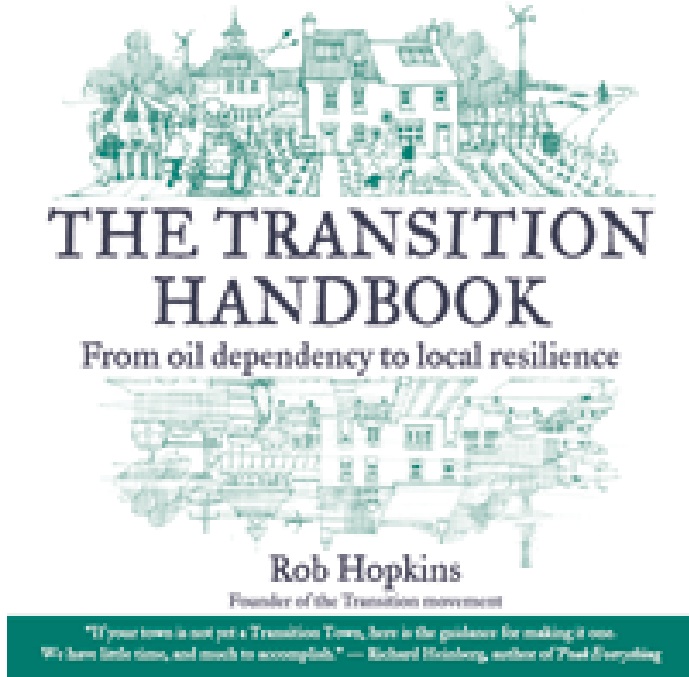




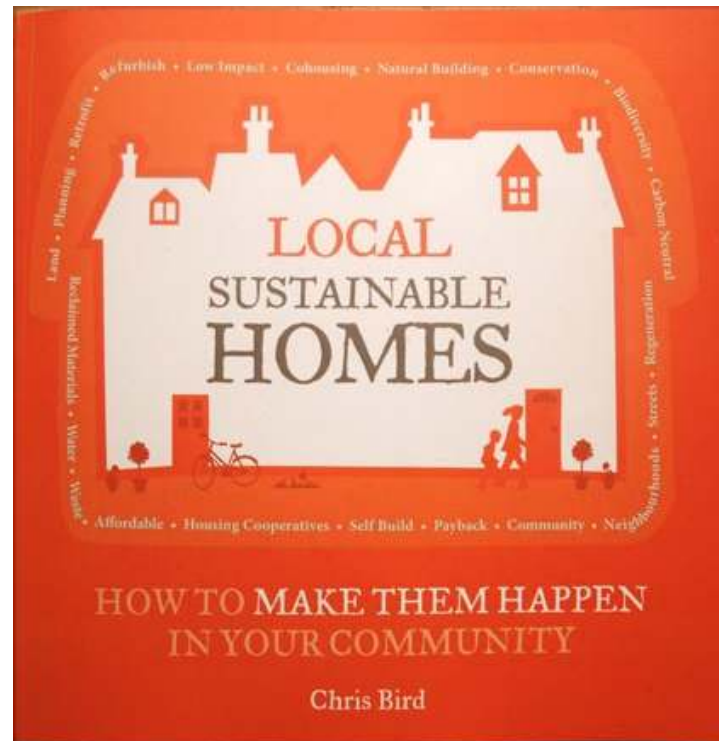
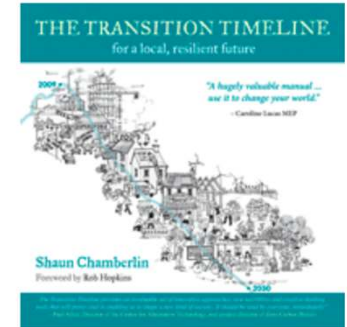
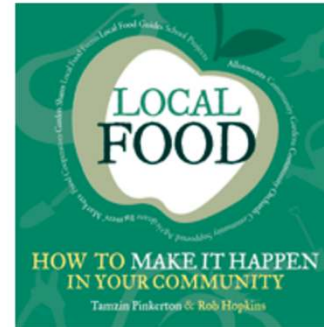
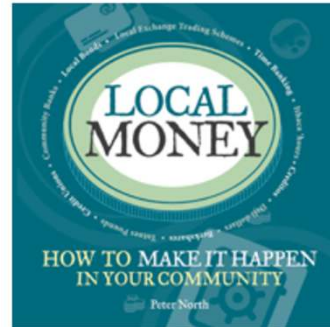




# Spreading the Word



an imprint of  
**Green Books**







INTERNATIONAL HEMP BUILDING ASSOCIATION

## 2nd INTERNATIONAL HEMP BUILDING SYMPOSIUM 27-28 APRIL GRANADA SPAIN



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Les nouvelles chances pour le bâtiment





Hemp event  
Information stands





# Conferences



Kaunas Lithuania May 2011



# Conferences



8<sup>th</sup> EIHA conference Wesseling Germany  
MAY 2011



# Tools

Basic poster provided  
for members, ready  
to translate into local  
language



## International Hemp Building Association

### Mission statement

To develop, promote and support the production and use of all hemp based construction materials and their by-products in a sustainable and bio-regional manner for the benefit of the ecology and communities of all regions of the world.

To Join go to;

[www.internationalhempbuilding.org](http://www.internationalhempbuilding.org)



# Tools

Basic poster provided  
for members, ready  
to translate into local  
language



## Asociación Cánamo Construcción Internacional

Las punterías de esta asociación son desarrollar, promover y apoyar la producción y el uso de todos los materiales de construcción basados cáñamo y de sus subproductos de una manera sostenible y bio-regional en beneficio de la ecología y de las comunidades de todas las regiones del mundo.

[www.internationalhempbuilding.org](http://www.internationalhempbuilding.org)





# Educational tools



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INTERNATIONAL HEMP BUILDING ASSOCIATION

## Internationale Hanf-Gebäude

-Verbindung Leitspruch Zu die Produktion und den Gebrauch entwickeln, fördern und stützen von allem Hanf gegründet Baumaterialien und ihre Nebenerscheinungen in einer stützbaaren und Bio-regionalen Weise zugunsten der Ökologie und der Gemeinschaften aller Regionen der Welt.

Um zu verbinden gehen Sie zu;  
[www.internationalhempbuilding.org](http://www.internationalhempbuilding.org)



INTERNATIONAL HEMP BUILDING ASSOCIATION

## Международная ассоциация здания пеньки

Заявление полета Начать, повысить и поддержать продукции пользу всей основанной пеньки конструкционные материалы и их субпродукты в устойчивом и био-регионарном образе в пользу экологичности и общин всех зон мира.

Соединить пойдите к  
; [www.internationalhempbuilding.org](http://www.internationalhempbuilding.org)



[www.internationalhempbuilding.org](http://www.internationalhempbuilding.org)

Posters and leaflet files with text separation for easy translation



INTERNATIONAL HEMP BUILDING ASSOCIATION

PROMOTING THE USE OF SUSTAINABLE  
HEMP BUILDING PRODUCTS & SYSTEMS WORLDWIDE

# HEMP BUILDING MATERIALS

Hemp absorbs nearly twice its dry weight in CO<sub>2</sub> during growth, providing a lower carbon footprint to all materials it is used to create



Two materials are produced from the Hemp plant stem, fibres from the outer bark and wood chips from the core.

The Hemp fibres are used to seal plumbing joints and are combined with a small percentage of other fibres to produce insulation matting.



Hemp wood chips or hurds are mixed with lime based binders to create a breathable masonry material called hempcrete. This is used to build monolithic walls and floors and to fill roof cavities.



Hemp board is also manufactured from hemp hurds and used in construction.



Hemp bricks can be made from hurds mixed with lime, gypsum or clay. Prebaricated panels can also be cast from hempcrete.



INTERNATIONAL HEMP BUILDING ASSOCIATION

ADVICE & SUPPORT TO HEMP BUILDING BUILDERS  
AND DEVELOPERS AROUND THE WORLD

Join us at [WWW.INTERNATIONALHEMPBUILDING.ORG](http://WWW.INTERNATIONALHEMPBUILDING.ORG)

# HEMP BUILDING SYSTEMS



Hempcrete can be cast manually around a timber frame using a shuttering system. This creates a uniform envelope to the structure which achieves a high standard of insulation and consequent low energy consumption with additional health benefits especially humidity regulation.



Hempcrete bricks have the capability of being self-supporting removing the need for a timber frame.

Local styles of vernacular buildings can be easily built with Hempcrete bricks.



Hemp fibre insulation provides a superior alternative to other fibre insulation materials and is used in passive house construction for its non toxicity. It is also ideal for retro fitting existing buildings.



Hempcrete can also be sprayed into position more quickly and produces a superior material that sets and dries out in less time than when applied manually. Sprayed Hempcrete uses less water and the composition of the material is more uniform.



Join the I.H.B.A. and help promote the use of Hemp materials for building throughout the world. go to:

[www.internationalhempbuilding.org](http://www.internationalhempbuilding.org)



HELP US TO HELP OTHERS [WWW.INTERNATIONALHEMPBUILDING.ORG](http://WWW.INTERNATIONALHEMPBUILDING.ORG)





## INTERNATIONAL HEMP BUILDING ASSOCIATION

- The IHBA aims to work for the gathering and dissemination of knowledge about the materials and systems from those developing and using them to those wishing to.
- The IHBA will assist members developing systems both from the point of view of production of the materials to their use in vernacular and new styles of architecture appropriate to their region.
- The IHBA will work to educate and inform the relative government and trade bodies to help in the establishment of the infrastructure necessary to create a hemp building industry throughout the international community.
- The IHBA will at all times work to ensure that the use of such materials has the least environmental impact possible.





THANK YOU