

Nature is High-Tech

Hempcrete and wood in bio-based buildings

May 19th 09:00 - 11:30

WEBINAR via Zoom



Agenda

Introduction

09:00 Jakob Nielsen - Moderator

Research

09:15 Paulien Strandberg - [Lund University](#)

Agriculture & Refining

09:30 Olivier Robert - [La Chanvrière](#)

Certified Lime

09:45 Daniel Daviller - [BCB-Tradical](#)

Hempcrete construction

10:00 Christophe Lubert - [LB Eco Habitat](#)

Engineer & Architects

10:15 Quentin Pichon - [CAN-ia Architectes](#)

10:30 Laurent Mouly - [LM Ingénieur](#)

Construction machines

10:45 Hugo Grelet - [Euromair](#)

Swedish construction

11:00 Jonas Nilsson - [JN LinkedIn](#)

Q&A

11:15 Jakob Nielsen

Each speaker has:

15 minutes

10 min presentation

5 min questions

Event Partners



Sustainable Business Hub is a triple helix cluster for sustainability and cleantech. The members are cleantech companies, regional and local authorities, utilities, universities, and research institutes.



LFM30, Local Roadmap Malmö 2030, is an initiative signed by 120 companies. Within 10 years the construction and civil engineering sector in Malmö is aiming to become climate neutral.



RISE Research Institutes of Sweden AB, is a Swedish state-owned research institute, collaborating together with universities, industry and the public sector to drive international competitive sustainable development and growth. RISE employs more than 2800 researchers.



Ideon Open is Ideon Science Park's initiative for open innovation. They provide the neutral platform for collaborating with corporate clients, external consultancy firms and other agents towards a common goal.



House of Hemp is the BCB-Tradical representative in Sweden. Selling, building, promoting and educating about certified hempcrete on the Swedish market.



Northern Connections is a partnership in between 22 clusters, cities, regions and knowledge institutions, and they work together to create innovation connections between enterprises and clusters in the energy sector.



Enterprise Europe Networks helps Small and Medium-sized Enterprises (SMEs) innovate and grow internationally.

Exchange of knowledge

France - Sweden

France is the world leader in hempcrete. It began in 1987 with the renovation of a timber-framed house and is today an industry ready to deliver for the 2024 Olympics in Paris.

Sweden is one of the leading countries in wood construction and cross-laminated wood; also known for its engineering and design, it is a natural partner to the hempcrete industry.

This is planned to be the first of several meetings in between the French hempcrete industry and Swedish building industry. Leading to new partnerships and an increase in knowledge of bio-based construction in both countries.



3 meetings for 2020

1. WEBINAR 19th of May
Held in Zoom
Introduction to hempcrete and
presentation of the main players in
France to the swedish market
2. Conference in Malmö in September
(depending on Covid19)
Wood industry + Hemp industry
3. Conference in Paris late 2020
(depending on Covid19)
Swedish bio-based companies go to
Paris.



Audience

Builders, Architects, Researchers,
Municipalities, Building Engineers.

Goal

The goal with the first Webinar is to increase the knowledge of hempcrete and to learn about France as a leader in bio-based buildings.

The longer term goal is to start a cross border cooperation to increase bio-based buildings, with the ultimate goal of lowering the CO₂ from the construction industry.





BIO-BASED MATERIAL
Hemp + Lime + Water

**CARBON NEGATIVE
ENERGY EFFICIENT**
Meets The Most Stringent
Requirements For
Low-Energy Buildings



**HYGROTHERMAL
BEHAVIOUR**
Breathability,
Mold Resistant,
Stores Excess moisture



SAFE & DURABLE
Fire, Water & Pest
Resistant
expected to last
100's of years



SELF-INSULATION SYSTEM
Insulating Wall, Screed, Roof,
Lining and Render
surface heat regulation of
interior walls

AIR QUALITY
Breathability,
Non Toxic,
Natural Humidity Regulator



Petrochemically Based

40% of green house gas emissions are produced by the building industry

1.5 million of barrels of oil per day are used by the construction industry

170 million tons of building related waste were generated in 2003

233% more frequent smoke signatures caused synthetic furniture and construction materials

Hemp Based

110 kg of CO₂ are sequestered in one cubic meter of hempcrete

50-80% energy conservation for heating + cooling hemp structure

One hectare of industrial hemp can absorb

22 tonnes of CO₂

0 fertilizers or insecticides are required by hemp

0% on-site waste

100% non-combustible with a 4 hours fire rating

France to mandate all new public buildings be 50% timber or other natural materials by 2022.

In addition to wood, the mandate can be fulfilled by bio-based materials made from matter derived from living organisms such as hemp and straw. The mandate will apply to buildings constructed for the 2024 Paris Olympics complex.





The Olympic Village will be a model of sustainable development, including:

100% bio-based materials

100% green energy during the Games

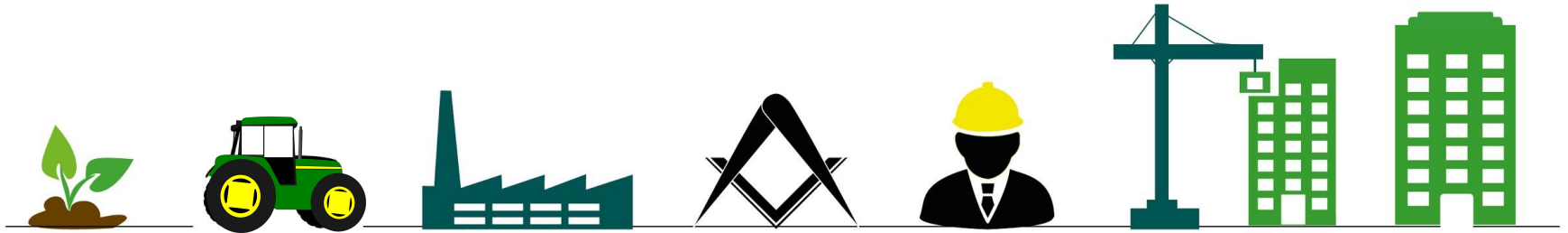
100% of the Olympic family and spectators using clean transportation

Over 26 hectares of biodiversity created on the Olympic sites in Seine-Saint-Denis thanks to the Games

www.paris2024.org



Stages in hempcrete production



 **LA CHANVRIÈRE**^{COM}
The field of your vision


Tradical[®]

LB
ÉCO HABITAT


INGÉNIEURS
ARCHITECTES

LM Ingénieur

EUromair

Introduction

09:00



Jakob Nielsen
Business Developer

Moderator of the Webinar and will introduce the various partners.

Research

09:15



Paulien Strandberg,
Tekn. Dr. Avd Byggnadsmaterial LTH

Overview of hempcrete insulation with a focus on heat and moisture properties.

[Lund University](https://www.lunduniversity.se)



LUNDS
UNIVERSITET

Introduction

Research

Agriculture &
Processing

Certified
Lime

Hempcrete
Construction

Engineer &
Architects

Construction
Machine

Swedish
Construction

Q & A

09:30



Olivier Robert,
Sales manager, La Chanvrière (largest hemp refinery in Europe)

Showing the economic viability of growing hemp & certified hemp building materials.

[La Chanvrière](#)



Certified Lime

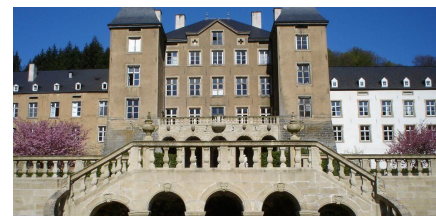
09:45



Daniel Daviller,
General Manager, BCB - Tradical

Overview on hempcrete markets worldwide with a focus on certified lime for hempcrete. Tradical's reference projects.

[BCB-Tradical](#)



Hempcrete Construction

10:00



Christophe Lubert,
Founder, LB Eco Habitat

Prefabricated hempcrete panels for a faster construction process & renovation of cultural heritage buildings.

[LB Eco Habitat](#)



LB
ÉCO HABITAT

Engineer & Architects

10:15



Quentin Pichon,
Partner & founder, CAN-ia Ingenieurs, Architects

Overview on the environmental policy EPD & hempcrete properties illustrated with CAN-ia's most compelling construction projects

[CAN-ia Architectes](#)



CAN | INGENIEURS
ARCHITECTES

Introduction

Research

Agriculture &
Processing

Certified
Lime

**Hempcrete
Construction**

**Engineer &
Architects**

Construction
Machine

Swedish
Construction

Q & A

Engineer & Architects

10:30



Laurent Mouly,
Founder, LM Ingénieur

Overview of multi-storey houses with hempcrete as an insulation in Paris. The fourth is now under construction, a nine floor building in Boulogne-Billancourt.

[LM Ingénieur](#)



LM Ingénieur

Construction Machine

10:45



Hugo Grelet,
Export Manager for Northern Europe, Euromair

Euromair manufacturers spray machines for hempcrete, ranging from 1,5 m³/h to 6 m³/h.

[Euromair](#)



EUROMAIR

11:00



Jonas Nilsson,
Entrepreneur, Landskrona

Jonas is building Sweden's first hempcrete house with certified materials. The house will be 50 m² and have several exciting solutions

[JN LinkedIn](#)



Q & A

11:15

Time for questions, final thoughts from the moderator and presentation of the next meeting in september in Malmö.

Hempcrete + Wood Bio-based buildings Malmö, September 2020

The next step will be a physical meeting in between the french hempcrete industry and the swedish wood industry.



Presentations will be made available after the webinar.

Any question you might have can be asked during the webinar or can be sent in advance to:

peter.holmdahl@houseofhemp.se

We hope you will join us on the 19th of May!