



International Energy Agency  
Energy Conservation in  
Buildings and Community  
Systems Programme



FIRST ANNOUNCEMENT

# International symposium on Superinsulating materials

BRUSSELS, BELGIUM

Thursday 26 April 2012



Materials Science & Technology

## Symposium organizers

The symposium is organized by INIVE EEIG (International Network for Information on Ventilation and Energy Performance) in close collaboration with Empa and the Belgian Building Research Institute.

## Context of the symposium

The energy and environmental challenges ahead of us are tremendous; a reduction of the heat flow through opaque building elements remains a top priority. This is not only the case for new buildings but even more for existing buildings. Whereas in the past insulation layers in the building envelope yielded rarely more than 100 mm of thickness, the tightening of the requirements and targets will lead to substantially thicker layers with classical insulation materials. Especially for renovation, the thickness of internal or external insulation layers becomes a major issue of concern. Within these boundary conditions, there is a growing interest in the so-called superinsulating materials<sup>1</sup>. This is highlighted by substantial investments in the EU 7<sup>th</sup> framework programme. One part of the challenge is to develop materials with very high insulating values, the other part is the development of appropriate applications and installation methods. Durability of performances is a complementary aspect for study.

This international symposium aims to present an extensive overview of the state of the art in superinsulation, of new developments and of remaining challenges, addressing an audience interested in both the materials and the applications.

This international symposium is the start of a process aiming at a new and broad international collaboration on superinsulating materials and applications for the next decade.

## Date

Thursday 26 April 2012 from 9.15 till 17.15.

## Language

English will be the official language. No translation is foreseen.

## Fee

The workshop fee is 121 € (VAT included). This fee includes participation at the symposium, documentation, lunch and coffee breaks.

## Registration

Participants should enrol by returning the registration form available on the INIVE website ([www.inive.org](http://www.inive.org)).

A confirmation of registration will be send not later than March 31. Only AFTER confirmation of registration, payment has to be done (IBAN BE52 4348 2089 2109 - BIC CODE: KRED BE BB).

## Venue

The symposium will take place in the Auditorium Hadewych, Conscience Building, Koning Albert II-laan 15, 1210 Brussels. The building is within walking distance from the Brussels North train station.

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<sup>1</sup> Superinsulating materials are considered to have a thermal conductivity below 25 mW/(m·K) if air filled, below 20 mW/(m·K) if gas filled, or below 15 mW/(m·K) if evacuated

# Programme

## 8.45 - Welcome coffee and registration

### PART 1: Introduction

- 9.15 Welcome and overall context Peter Wouters (INIVE EEIG)  
9.30 Superinsulation - a new trend for new constructions and for building renovation Mark Zimmermann, (Empa, CH)

### PART 2: Ongoing Research

Chair of session: Karim Ghazi Wakili (Empa, CH)

- 9.45 EU project AEROCOINs - Aerogel-Based Composite / Hybrid Nanomaterials Maria Moragues (Technalia, ES)  
10.00 EU project HIPIN - High performance Insulation based on Nanostructure encapsulation of air Geraldine Durand (TWI, UK)  
10.15 EU project NANOFOAM - New NANO-technology based high performance insulation FOAM Vo Chau (DOW, CH)

10.30 – 11.00 Break

- 11.00 EU project NANOINSULATE - Nanotechnology-based High-performance Opaque & Transparent Insulation Systems Yoash Carmi (Hanita, IL)  
11.15 Superinsulation research in France Bernard Yrieix (EDF, FR)  
11.30 Superinsulation research in Canada Phalguni Mukhopadhyaya (NRC, CN)  
11.45 Lightweight nanofoams for thermal insulation Stefan Lindner (Bayer, DE)

12.00 – 13.15 Lunch

### PART 3: Present Applications

Chair of session: Luk Vandaele (BBRI, BE)

#### *Nanoporous materials*

- 13.15 Façade insulation with Spaceloft Micheal O'Connor (Aspen, USA)  
13.30 Aerorock® ID / Aerowool Peter Binderup Hansen (Rockwool, BE)  
13.45 Internal insulation with StoTherm In Aevero – Sto Martin Hitzler (Sto EU)  
14.00 Façade renovation with Aerogel rendering Mark Zimmermann (Empa/Fixit, CH)  
14.15 Discussion

14.30 – 15.00 Break

#### *Vacuum insulation*

- 15.00 Building insulation with VIP Gregor Erbenich (Porextherm, DE)  
15.15 VIP façade insulation Martin Forstner (Variotec, DE)  
15.30 VIP flat roof and terrace insulation Samuel Brunner (Empa, CH)  
15.45 VIP applications in construction Luc Heymans (Microtherm, BE)  
16.00 Application of embedded VIP on facades: experience from the Clear-up project Libor Kubina (Saint-Gobain Weber Terranova, CZ)  
16.15 Discussion

### PART 4: Performance assessment

- 16.30 Frameworks for formal assessment of quality Eric Winnepeninckx (UEATC)  
16.45 Dynastee Network of Excellence on performance evaluation of innovative building elements (IEA Annex 58) Hans Bloem (JRC Ispra)  
17.00 Symposium closure, adjourn Karim Ghazi Wakili (Empa, CH)

17:15 End

## How to get to the workshop?

**By plane:** Trains run every 15 or 20 minutes from Brussels National Airport to Brussels North Station. Journey time: approx. 20 minutes.

**By taxi:** Taxis from the airport often take more time than the train, in particular during rush hours.

**By train:** High speed trains stop at Brussels South station. There are frequent connections from South to North Station by train or by metro.

**By metro:** Lines 3 or 4 – Stop at North Station. 5 minutes walk to the symposium location.

**By car:** The address is Koning Albert II-laan 15, 1210 Brussels. No reserved parking available.

## Hotel reservation

If you are looking for hotel accommodation: the website [www.hotelscombined.com](http://www.hotelscombined.com) can be useful. As this period is very busy due to other events in Brussels, we advise you to reserve your hotel as soon as possible.

## About INIVE

INIVE EEIG (International **N**etwork for **I**nformation on **V**entilation and **E**nergy Performance) was created in 2001 as a so-called European Economic Interest Grouping. The main reason for founding INIVE was to set up a worldwide acting network of excellence in knowledge gathering and dissemination. At present, INIVE has 11 member organisations (BBRI, CETIAT, CIMNE, CSTB, ERG, ENTPE, IBP-Fraunhofer, SINTEF, NKUA, TMT US and TNO). More information on [www.inive.org](http://www.inive.org).

INIVE is coordinating and/or facilitating various international projects, e.g. the Air Infiltration and Ventilation Centre ([www.aivc.org](http://www.aivc.org)), the European portal on Energy Efficiency in buildings ([www.buildup.eu](http://www.buildup.eu)), TightVent Europe ([www.tightvent.eu](http://www.tightvent.eu)) and Dynastee ([www.dynastee.info](http://www.dynastee.info)). INIVE has also coordinated the ASIEPI project ([www.asiepi.eu](http://www.asiepi.eu)).

## Sponsoring

This symposium is receiving financial and technical support from various organisations. More information will be provided in the 2<sup>nd</sup> announcement.

## Symposium secretariat

Mr. Stéphane Degauquier, [sd@bbri.be](mailto:sd@bbri.be) - Fax +32.2.653.07.29

INIVE EEIG (c/o WTCB-CSTC-BBRI) - Lozenberg 7 – BE-1932 St-Stevens-Woluwe, Belgium



**Registration Form**  
**International Symposium on Superinsulating materials**

**Auditorium Hadewych, Brussels, Belgium, Thursday 26 April 2012**

Last name:	First name:	(Mr/ Mrs/ Dr):
Institution:		
Address :		
ZIP:	City:	Country:
Phone:	Fax:	E-mail:
VAT number:.		

The workshop fee of 121 € (incl. VAT) includes:

- The participation to the workshop
- The documentation
- The welcome coffee, coffee breaks and lunch during the symposium

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- By bank transfer, payable to INIVE eeig : IBAN : BE52 4348 2089 2109 - Bank Identifier Code : KRED BE BB
- By credit card:       Visa     Eurocard-mastercard     American express

I hereby authorize INIVE to charge \_\_\_\_\_ EUR to my credit card for registration.  
(WTCB/CSTC will appear on the receipt)

Credit card number:	Expiration date:
Full name of cardholder as it appears on the card:	
Date:	Cardholder's signature:

Please return this completed registration form to Mr. Stéphane Degauquier, Secretariat INIVE EEIG

INIVE, Lozenberg 7, BE-1932 St-Stevens-Woluwe, Belgium – Fax : +32.2.653.07.29 – Tel : +32.2.655.77.70 – e-mail : [sd@bbri.be](mailto:sd@bbri.be)



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