

VACUUM INSULATION PANEL



GLOBAL ASSOCIATION

QUARTERLY NEWSLETTER

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TC 88 WG11



The third edition of our Quarterly Newsletter brings you some highlights of VIPA's participation to IVIS 2015 in Nanjing. As usual, you will find a short summary of the activities of the different Working Groups and the issues they have been working on during the past months.

2015 is soon coming to an end which is a good opportunity to look back at what was accomplished this year and also to look forward to what we want to work on in 2016. You will see below that there is a draft 2016 Work Plan under consultation at the moment so any suggestion or idea you might have about 2016 activities would be very much welcomed and appreciated!

We hope you will find this information useful and remain at your disposal if any queries arise.

With best regards,
Roland Caps
President VIPA International

1. General News

1.1 IVIS 2015: very successful participation for VIPA International



The 12th edition of the International Vacuum Insulation Symposium ([IVIS](#)) took place in Nanjing, P. R. China, from 19 to 20 September 2015. VIPA International was a silver sponsor of the event which gave the Association excellent visibility. Dr Roland Caps gave a presentation about the Association during the IVIS opening session. VIPA International's staff was present at the VIPA stand in the exhibition area of the IVIS.

The stand raised the interest of many companies, universities and researchers. VIPA International staff and leadership also had the opportunity to meet with the Chinese Insulation & Energy Efficiency Materials Association (CIEEMA) as well as with some government representatives.

The day before the start of IVIS, VIPA International held three internal meetings in Nanjing: General Assembly, Board and Technical Working Group meeting. The Nanjing General Assembly was actually the first ever General Assembly of the Association and the first time both regular and associate members were together in the same meeting room to talk about VIPA International. During the General Assembly, the [annual report of activities](#) was approved and released.

Dr Roland Caps (va-Q-tec) was elected for a second mandate as President of the Association. The Board of VIPA International is very pleased with the Association's participation to the 2015 edition of IVIS. A lot of effort was put into this event but the outcome is very positive, especially in terms of visibility and contacts made.

1.2 VIPA International and the CSTB will co-host the next International Vacuum

Insulation Symposium in 2017

VIPA International and the French Centre Scientifique et Technique du Bâtiment (CSTB) announced in Nanjing that they will organise together the next edition of the International Vacuum Insulation Symposium in 2017. The announcement was made at the end of IVIS 2015. Both parties are now working together on the details of the event which will take place in September 2017 in France. On VIPA International's side, an IVIS 2017 Taskforce was set-up to lead this project. The Taskforce members include Oved Shapira (Hanita Coatings), Hark-Oluf Asbahr (Evonik), Gregor Erbenich (Porextherm) and Michel Chauvois (Rexor). The Taskforce had one conference call in July and one meeting in Nanjing with the CSTB to discuss the event topics and planning.

Read press release [here](#).

1.3 IVIS section on VIPA International website

A new section dedicated to IVIS is now available on the VIPA International website. This section includes presentations and proceedings of the previous editions of IVIS from 2001 until now.

IVIS takes place every two years in a different part of the world. The event targets academia and industry that work on the research, development and production of high performance thermal insulations. The purpose is to present the latest science and to provide networking opportunities for the vacuum insulation panel industry. Previous IVIS dates and locations:

- 2001 hosted by VIA, Rome, Italy
- 2005 hosted by EMPA, Dübendorf, Switzerland
- 2007 hosted by ZAE, Würzburg, Germany
- 2009 hosted by the Royal Institution of Great Britain, London, U.K.
- 2011 hosted by the NRC, Ottawa, Canada
- 2013 hosted by EMPA, Dübendorf, Switzerland
- 2015 hosted by the NUAA, Nanjing, China

We invite you to visit the IVIS page [here](#).

1.4 Two new case studies released

VIPA International publishes case studies provided by its members. These showcase the advantages of VIPs. The Communications & PR Working Group is leading this effort together with the VIPA secretariat. Should you wish to send a case study from your company, please feel free to contact the secretariat in Brussels. VIPA International released recently two new case studies:

VIP technology provides luxury finish to mixed-use development in London - case study provided by Kingspan - download [here](#)

This case study describes the renovation process of a new mixed-use development located in Mentmore Terrace in the London Fields area, U.K.. The empty space which was used only for occasional unpermitted parking was converted into a new 5 storey building with a luxury 3 bedroom penthouse and a spacious roof terrace.

The case study was also published on the [BuildUp platform](#).

VIP technology simplifies the energetic refurbishment of an office building built in the 1960s - case study provided by Evonik and Porextherm - download [here](#)

The 50 years old office building of FrymaKoruma in Rheinfelden, Switzerland, was subject to a deep renovation process to improve the energy consumption. The renovation team refurbished the façade elements with 72 mm CALOSTAT®/VIP/CALOSTAT® heat insulation sandwiches which brought multiple benefits at once.

The case study was also published on the [BuildUp platform](#).

2. Association News

2.1. New members joining the association

In 2015 a total of 11 companies/organisations joined VIPA International:

- Microtherm (manufacturer)
- Porextherm (manufacturer)
- Camvac (supplier)
- Hongda Suzhou V.I.P. New Material (manufacturer)
- FIW, München Forschungsinstitut für Wärmeschutz eV München (associate)
- NUAA, Nanjing University of Aeronautics and Astronautics (associate)
- Kongju National University (associate)
- University of Victoria (associate)

- University of Oxford (associate) membership will become effective upon fee payment
- Chuzhou Yinxing Electric (manufacturer) membership will become effective upon fee payment
- Kindai University (associate) membership will become effective upon fee payment



We are happy to welcome as new manufacturer member of VIPA: [Jiangsu Sanyou Dior Energy-saving New Materials Co., Ltd.](#) The company is based in the Changzhou city in the province of Jiangsu in China. Jiangsu Sanyou Dior joins VIPA International as a manufacturer member.

2.2. Board Update

The VIPA International Board had a meeting in Nanjing on 18 September. The next face-to-face meeting is scheduled for 2 December 2015 in Brussels. In Nanjing, the Board discussed the following items:

- Memorandum of understanding proposed by NUAA on the creation of the International Laboratory for VIP Materials. The Board decided not to go ahead with it;
- The organisation of IVIS 2017 together with the CSTB;
- Vladimir Pogač, Turna, was nominated VIPA's main representative to the CEN TC 88 WG 11;
- The review process of the Bylaws next year: the membership categories and the Board composition will need to be reviewed to streamline the functioning of the Association;
- VIP RAL Quality Label: still needs discussion with the GSH to find a win-win situation for both parties

Most of these items will again be on the agenda of the next face-to-face meeting. In addition, the December meeting will include discussion and decision on work plan of activities for 2016 and the budget for next year.

The VIPA secretariat circulated a draft [2016 Work Plan](#) to give all members the opportunity to input to the document before it is discussed and approved by the Board on 2 December. We invite all members to check the document and send any suggestions to the secretariat in Brussels.

2.3 Update Technical WG

The Technical WG had two meetings in Nanjing on 18 and 20 September to discuss the technical annexes of the contract with FIW for the two studies commissioned to fasten the standardisation process. The WG agreed on the technical details for the study on Compressive Strength Measurement, while FIW will present a new proposal for the study on the Ageing Process of VIPs. The study on Compressive Strength Measurement will start in November and will last 6 months.

2.4 Update Communications & PR WG

The Communications & PR Working Group did not have a conference call or meeting in the past months - most work is done via email. A couple of press releases and case studies were released in September and October. The Communications & PR Working Group also supervises the publication of the Quarterly Newsletter.

2.5 Update Public Affairs WG

The Public Affairs WG had a conference call on 10 September to discuss recent developments in EU policy. The WG prepared a reply to the open consultation on the evaluation of the EPBD to remark how the directive established ambitious objectives, but the lack of binding targets, the uncertain economic situation and the difficult access to financing contributed to unsatisfactory results. VIPA International is thus recommending a renewed effort from the European Commission on renovation of EU buildings. In particular, the reviewed EPBD should include binding targets, better communication, easy access to financing and better financing tools for super insulation products such as Vacuum Insulation Panels.

Other policy initiatives, including Energy Label and Circular Economy were also discussed. Additional details can be found below in the section "Policy News from Europe".

3. Policy News from Europe

3.1. Energy labelling

The proposal launched by the European Commission to change the energy label of products is now under discussion in the European Parliament. If accepted, a single energy labeling scale from 'A to G' will replace all existing energy labels for appliances such as refrigerators.

Dario Tamburrano (Italy, EFDD) has been appointed as rapporteur for the Industry, Research and Energy Committee of the European Parliament (ITRE). The vote in the ITRE committee is scheduled for the 24 May 2016. The Council of the European Union is also reviewing the proposal of the European Commission. The Council and the Parliament will have to approve an identical text. The proposal of the European Commission can be found [here](#)

3.2. Public consultation on the evaluation of the Energy Performance of Buildings Directive (EPBD)

The European Commission launched a public consultation on the evaluation of the EPBD, the key Directive on energy efficiency of buildings. VIPA International replied to this public consultation to provide its views on the directive. The implementation and enforcement of the EPBD still today is not sufficient to meet the annual renovation rate of 3% agreed under the Energy Efficiency Directive. Moreover, the flexibility ensured by the EPBD resulted in remarkably different levels of ambition, targets and requirements, with many Member States still lacking a long-term approach to renovation. The Commission published a [Roadmap](#) on the Review of the EPBD.

3.3 Public Consultation on the Review of the Energy Efficiency Directive (EED)

The European Commission also launched a public consultation on the evaluation of the EED. Compared to the EPBD, the EED tackles more generally energy efficiency, but it also includes some dispositions on buildings. The consultation asks the stakeholders' opinion on general scope and targets of the EED, on public procurement of high energy efficient buildings and on financing mechanisms. Deadline for comments is 29 January 2016.

The EED faced the same problems of the EPBD in terms of lack of financing, long-term view and implementation: this October, the Commission requested eleven Member States to fully transpose the EED. The Directive had to be transposed into national law by June 2014.

The text of the consultation can be downloaded [here](#). The Commission also published an [Evaluation of the EED](#) and a [Review of the EED](#).

3.4 European Commission Work Plan for 2016

The European Commission published its Work Plan for 2016. The Energy Union Package will be one of the main fields of activities of the Commission in 2016. The package includes several initiatives, from a review of the renewables directive to new proposals on energy market design. For VIPA, the planned review of the energy efficiency package on buildings (Energy Efficiency Directive and Energy Performance of Buildings Directive) is of course the main point. The Commission is expected to publish a legislative proposal with reviewed EPBD and EED by September 2016.

The European Commission Work Plan for 2016 is available [here](#).

3.5 Investment opportunities for energy efficiency of buildings

The European Commission adopted on 13 October the Horizon 2020 Work Programme 2016-2017. Several energy efficiency topics are available under the R&D fund of the European Union. The submission session for the first energy-efficient buildings call is now open and can be consulted [here](#).

The European Commission is also organising an [info day](#) on the energy efficiency calls on 8 December 2016. The info day will be a good occasion to have first-hand information on the possibilities for funding and on the application process.

According to a leaked [draft](#) of the forthcoming State of the Energy Union report, the European Commission is also planning to launch a scheme to ease access to capital for energy efficiency projects in buildings. The scheme should aggregate smaller energy efficiency projects, assist the projects proponents and provide better investment opportunities for potential investors. Additional information on this scheme will be available in the coming months.

3.6 Public consultation on Circular Economy

The European Commission conducted also a public consultation on the Circular Economy Package. VIPA replied to the public consultation, providing recommendations on how to promote circular economy principles in Europe. The Commission will present a new circular economy strategy late in 2015 or in the first months of 2016. This will comprise a revised legislative proposal on waste and a communication setting out an action plan to 2020.

3.7 New study on renovation highlights savings in grid investment

The climate consultancy Ecofys conducted a study on the potential savings delivered by renovating the European buildings' stock. The study, titled "The role of energy efficient buildings in the EU's future power system" is focused in particular on the benefits for the electricity grid: according to Ecofys, 57 GW in peak load can be saved in a high energy efficiency scenario, resulting also in a reduced burden to the grid. These savings could bring with up to 153 billion EUR of capital

expenditure reduction in the power sector until 2050. Renovation of buildings would then deliver additional benefits in terms of reduced CO2 emissions, job creation and economic growth. The study can be downloaded [here](#).

3.8 IEA Energy Efficiency Market Report 2015

The International Energy Agency (IEA) published its Energy Efficiency Market Report for 2015. The report shows that energy efficiency had a remarkable impact in terms of reduced emissions and economic savings: the study estimates that energy efficiency improvements saved USD 5.7 trillion in energy expenditures and 10 billion tonnes of CO2 emissions over the past 25 years.

The report also includes a section on buildings and underlines the high potential of energy efficiency of buildings: global energy efficiency investment in buildings is projected to increase to over USD 125 billion by 2020. According to the report, the buildings' energy efficiency market is driven by new buildings in China (70%) and in the US (60%), while Germany (60%) is focused on the retrofits of existing building. The European Union (27%), North America (20%) and China (20%) represent together more than two thirds of the projected global building energy efficiency investment for the period 2014-2035.

The full report can be downloaded [here](#).

3.9 New CEN CENELEC website with information on Chinese and European standardisation system

CEN (European Committee for Standardization), CENELEC (European Committee for Electrotechnical Standardization) and ETSI (European Telecommunications Standards Institute) launched a new [website](#) to improve the mutual understanding of the Chinese and European standardisation system. The website, also funded by the European Commission and the European Free Trade Association, offers useful insights on the functioning of both systems. Calendar of events, newsletters, reports and presentations are also available on the website. Additional information is available also on CEN CENELEC [website](#).

4. Upcoming events

- 17 November 2015, Brussels, Belgium: [European Parliament Gypsum Forum](#)
- 17-19 November 2015, Barcelona, Spain: [Smart City Expo World Congress](#)
- 18 November 2015, Brussels, Belgium: [Towards an energy efficient European housing stock - mapping, modelling and monitoring refurbishment processes: Experts workshop](#)
- 20-22 November 2015, Athens, Greece: [Building Green Expo 2015](#)
- 26 November 2016, Turin, Italy: [EASEE Solution Workshop: From design to implementation: innovative retrofitting approaches](#)
- 26-27 November 2015, Barcelona, Spain: [7a Conferencia Española Passivhaus](#)
- 30 November 2015, Paris, France: [Architecture, the climate of the future](#)
- 30 November-11 December 2015, Paris, France: [UN Climate Change Conference COP21](#)
- 3 December 2015, Paris, France: [Buildings day at COP21](#)
- 4 December 2015, Paris, France: [Climate Change Construction Solutions](#)
- 23-27 January 2016, Orlando, Florida: [ASHRAE 2016 Winter Conference](#)
- 25-26 February 2016, Wels, Austria: [European Nearly Zero Energy Buildings Conference 2016](#)

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